

<110> Rosen et al.
 <120> 49 Human Secreted Proteins
 <130> P2032P1
 <140> Unassigned
 <141> 2000-02-23
 <150> PCT/US99/19330
 <151> 1999-08-24
 <150> 60/097,917
 <151> 1998-08-25
 <150> 60/098,634
 <151> 1998-08-31
 <160> 170
 <170> PatentIn Ver. 2.0

<210> 1
 <211> 733
 <212> DNA
 <213> Homo sapiens

<400> 1
 gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg 60
 aatttcgaggg tgcaccgtca gtcttctctt tcccccaaaa acccaaggac accctcatga 120
 tctcccggac tcttgaggtc acatgcgtgg tgggtggacgt aagccacgaa gacctgagg 180
 tcaagtcca ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
 aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300
 ggctgaatgg caaggagtac aagtgcgaagg tctccaacaa agccctccca acccccatcg 360
 agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acagggtgtac accctgcccc 420
 catcccgga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480
 atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540
 ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag ctcaccgtgg 600
 acaagagcag gtggcagcag gggaacgtct tctcatgtct cgtgatgcat gaggctctgc 660
 acaaccacta cagcagaag agcctctctc tgtctccggg taaatgagtg cgacggccgc 720
 gactctagag gat 733

<210> 2
 <211> 5
 <212> PRT
 <213> Homo sapiens

<220>
 <221> Site
 <222> (3)
 <223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2
 Trp Ser Xaa Trp Ser
 1 5

005270" 3364500F

<210> 3
 <211> 86
 <212> DNA
 <213> Homo sapiens

<400> 3
 gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgacttc 60
 cccgaaatat ctgccatctc aattag 86

<210> 4
 <211> 27
 <212> DNA
 <213> Homo sapiens

<400> 4
 gcggcaagct ttttgcaaag cctaggg 27

<210> 5
 <211> 271
 <212> DNA
 <213> Homo sapiens

<400> 5
 ctgcgagattt cccccgaaatc tagattttccc cgaaatgatt tccccgaaat gatttccccg 60
 aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120
 gcccctaact ccgcccagtt ccgcccattc tccgcccacat ggctgactaa ttttttttat 180
 ttatgcagag gcgaggccg cctcgggctc tgagctattc cagaagtagt gaggaggctt 240
 ttttgagggc ctaggctttt gcaaaaagct t 271

<210> 6
 <211> 32
 <212> DNA
 <213> Homo sapiens

<400> 6
 gcgcctcgagg gatgacagcg atagaacccc gg 32

<210> 7
 <211> 31
 <212> DNA
 <213> Homo sapiens

<400> 7
 gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 8
 <211> 12
 <212> DNA
 <213> Homo sapiens

<400> 8
 ggggactttc cc 12

1005493.1230

<210> 9
 <211> 73
 <212> DNA
 <213> Homo sapiens

<400> 9
 ggggactttc cgggggactt tccggggact ttccgggact ttccatcctg 60
 ccattctcaat tag 73

<210> 10
 <211> 256
 <212> DNA
 <213> Homo sapiens

<400> 10
 ctgaggggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 60
 caattagtca gcaaccatag tcccggccct aactccggcc atcccggccc taactccggc 120
 cagttccggc cattctccgc cccatggctg actaattttt tttattttatg cagagggcga 180
 ggccgctctg gctcttgagc tatcccagaa gtagtgagga ggctttttttg gaggcctagg 240
 cttttgcaaa aagctt 256

<210> 11
 <211> 3289
 <212> DNA
 <213> Homo sapiens

<400> 11
 cccgggtcga cccacgcgtc cggcgaggac cgcgtccggc gcagtcttca atgagcagcg 60
 cggaaactgc accccagacc cgagcctgct ggcgcgcccc tcccagagct cacctgggtgc 120
 caggtaacag gcctggcctc gccctgtgga tgatgatggc cttgcccccg tgagctacaa 180
 cctggccttc agcaccocgc caccctccaa cagcaggatg cggctgtgga aggcgggtgg 240
 ggtgactttg gccttcatga gtgtggacat ctgctgagc acggccatct acgtcttcag 300
 ccacctggac cgcagcctcc tggaggacat ccgccaactc aacatctttg actcgggtgct 360
 ggatctcttg gcagcctgac tgtaccgcag ctgctgtctg ctggggagcc accatgggtg 420
 tggccaagaa cagtgcgctg gggccccggc ggctgcgggc ctgctggctg gtcattcccc 480
 tctgtgtgct cttcgtgggc atctatgcca tgggtgaagc gctgctcttc tcagaggtgc 540
 gcaggcccat cggggacccc tgggttttggg cctgttctgt gtggacgtac atttccactg 600
 gcgcatactt cctgctctgg tggctgtctg ccaccgtgcg gccaggcacc caggccctgg 660
 agccaggggc ggccaccgag gctgaaggct tccctgggag cggccggcca ccgcccgaac 720
 aagcgtcttg ggccacgctg cagaagctgc tctcctacac caagcccgac gtggccttcc 780
 tctgtggcgc ctcttctctc ctcatcgtgg cagctctggg agagaccttc ctgcccact 840
 acacggggcg cgcacttgat ggcatcgtca tccagaaaag catggatcag ttcagcagcg 900
 ctgtcgtcat cgtgtgcctg ctggccattg gcagctcatt tggcgcaggc attcggggcg 960
 gcattttttac cctcatatct gccagactga acattcgcct tcgaaaactgt ctcttccgct 1020
 cactgggtgt ccaggagaca agcttctttg atgagaaccg cacaggggac ctcatctccc 1080
 gcctgacctc ggacaccacc atggctcagcg acctgggtctc cagaacatca atgtcttctt 1140
 gcggaacaca gtcaagggtc cgggcgtggg ggtcttcatg ttcagcctct catggcagct 1200
 ctcccttggc accttcatgg gcttccccat catcatgatg gtgtccaaca tctacggcaa 1260
 gtactacaag aggtctctca aagagggtca gaatgccttg gccagagcga gcaacacggc 1320
 ggaggagacc atcagtgcca tgaagactgt cgggagcttc gccaatgagg aggaggaggc 1380
 agagggtgtac ctgcggaagc tgcagcaggt gtacaagctg aacagggaagg aggcagctgc 1440
 ctacatgtac tacgtctggg gcagcgggct cacactgctg gtggtccagg tcagcatcct 1500
 ctactacggg ggccaccttg tcatctcagg ccagatgacc agcggcaacc tcatcgcctt 1560
 catcatctac gagtttgtcc tgggagattg tatggagaat gtctccttca gcctgtcccc 1620
 cggcaagggt acggcccttg tggggccctc gggcagtggt aagagctcct gtgtcaacat 1680
 cctggagaac tctaccctcc tggagggggg cggggtgctg ctggacggca agcccatcag 1740
 cgcctacgac cacaagtact tgcaccgtgt gatctccctg gtgagccagg agcccggtct 1800

gttcgccccg tccatcacgg ataacatctc ctacggcctg cccactgtgc ctttcgagat 1860
 ggtgggtggag gccgcacaga aggccaatgc ccacggcttc atcatggaaac tccaggacgg 1920
 ctacagcaca gagacagggg agaagggcgc ccagctgtca ggtggccaga agcagcgggt 1980
 ggcattggccc gggctctggg gcggaacccc ccagtcctca tccctggatga agccaccagc 2040
 gcttttggatg ccgagagcga gtabctgata cagcaggcca tccatggcaa cctgcagaag 2100
 cacacggtag tcatcatcgc gcaccggctg agcaccgtgg agcacgcgca cctcattgtg 2160
 gtgctggaca agggcccgct agtcgagcag ggcacccacc agcagctgct ggcccagggc 2220
 ggcctctacg ccaagctggg gcagcggcag atgctggggc ttcagccccg cgcagacttc 2280
 acagctggcc acaacgagcc tgtagccaac ggcagtcaca aggcctgatg gggggccccc 2340
 gcttctcccc gtggggcaga ggacccgggt cctgcccggc agatgtgccc acggaggccc 2400
 ccagctgccc tccgagccca ggcctgcagc actgaaagac gacctgccat gtcccattga 2460
 tcaccgcttc ctgcatcttg cccctgggtc ctgccccatt cccagggcac tccctacccc 2520
 tgctgcccct agccaacgcc ttcacggacc tccctagcct cctaagcaaa ggtagagctg 2580
 cctttttttaa cctagggtctt accagggttt ttactgtttg gtttgaggca cccagtcaca 2640
 ctccctagatt tcaaaaaacct ttttctaatt gggagtaatt gcgggcactt tcaccaagat 2700
 gttctagaaa ctctcagacc aggagtgaat ggcccttccc tagtagcctg ggggatgtcc 2760
 agagactagg cctctccccc ttacccctcc agagaagggg cttccctgtc cgggagggag 2820
 acacggggaa cgggattttc cgtctctccc tcttgccagc tctgtgagtc tggccagggc 2880
 gggtagggag cgtggagggc atctgtctgc catcgccgcg tgccaattca agccagttc 2940
 actgtgaacc acacgaaacc tcaactgggg gagtggaggg ctggccagggt ctggaggggc 3000
 ctacgggggt cccccagccc ggcacccagc gctctcgcct ctctccacc caccctggg 3060
 tggcagcctc cctccccaca cccgcccctg tgctctgctg tctggaggcc acgtggatgt 3120
 tcatgagatg cactctcttc tgtctctggg ggatgggatg gtggcaaaag ccaggatctg 3180
 gctttgcccag aggttgcaac atgttgagag aaccgggtca ataaagtgt ctacctctta 3240
 cccctaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc cgctctaga 3289

<210> 12
 <211> 2342
 <212> DNA
 <213> Homo sapiens

<400> 12
 ggcacgagct cagatctctc ctgggtacccc ttccccacgc ccttagataa tccatctcaa 60
 ttccctcatgc taattgagga gctatggctg caaggcacct tccaggatct cacacctaca 120
 caaatctctt ttttctcttc ttgcctctct tgcttatggg atattctgag tccccacccc 180
 caatcactga cagctggggc cccctcatca gcttcacaca ccacgtatta agtcagtcac 240
 aatckcccc ctctcttaac tgctggattt gtcttcttac acacacccaa tgattccagg 300
 ctctctcggc tgamctactt acatggacac agtccaaagt gagcttacac atttcttact 360
 tggctatacc attcttgggt gattcattcc tgaaaamcgt tcataacctg gaaactcagc 420
 taaacacctt tccctcaaac tcagctctct cagcatgggt tcaggtaggg ctgttgcccc 480
 ccttcacctt atagctcttg gactaacatc catacaaacc aacacagcat catctaaacc 540
 accaatatgg gggtraccatt tctactcaaa cttccctcat atccccaccc ccccttatgt 600
 tcagccgaac ctaccctaatt ccagcccacg ccacaatggg gggacagggt cccaggtccc 660
 tatgtgggtc tatctttacc cttgcactcc ctgtagacca tcaattctac accctaatta 720
 caaaatcata tccacctctg cctggcagaa ggtgttatgc tttctctggc cgcttaccat 780
 ccacacatcc ctacacctca ccaccggatc ctccagtcta aagggtgccc ctggaaaaaa 840
 cttccccgct gccaaactct ctctctatgt ctccagtcta aagggtgccc ctggaaaaaa 900
 tghtaacaatt cccctcacctg tgactgggtac ctgacagcca ccacaccggg gcagcaatgg 960
 ctaacgggtg acaaaagacaa tttctttctc tctccaaaac caaacagcct tcatcaactc 1020
 cctagccaag actccctatc aggcctttac aggtgcccgt ctggctggca gttacccaat 1080
 ttgggaaaaa gaaaatcccc tatcatggta cctaccttca cctacaactt tgctgtcacc 1140
 cccagttctc ttttgtgtga tacaactgat atttkgccta ccagccaact ggtcagggaac 1200
 ttgcacccct gtctttcagg ctccaacctt caacatctta ccccttaacc aaactattct 1260
 aatttctgtg gaagcctcta tctctctctt acccataaga aataaatggg ctctacatct 1320
 catcacccct ctaacaggat taggcattac tgctgcactt ggcactggaa tagcaggcat 1380
 aaccacctca atcacctcat accaaacact attcacaacc cttcttaaca ccgtagaaga 1440
 tatgcacact tccattacca gtctccaacg acaattagac tccctcgtgg gagtcatcct 1500
 tcaaaaactg agagtcctgg acctcctaac cactgagaaa gggggtagct gcataatcct 1560

ccaggaagaa	tgctgtttct	gtgttaatga	atctggcatt	gttcatatcg	cagttcgtag	1620
gcttcatgac	agggctgcag	agctttgaca	tcaagtgcgt	gactcctggt	ggcaaggatc	1680
atcccttcta	agatggatac	cctgggttgc	cccccttcta	ggacccctga	tcttctctct	1740
cctgttacta	atgattgggc	catgcatatt	taaccttcta	tcccgccttca	tttcccaaaag	1800
gctgaattgt	tttatccagg	caagcatgca	aaaacacatt	gataatatat	ttcacctttg	1860
ccacgtctaa	taccagagcc	tacgaggaaa	ccattcggaa	gctccagaac	ccaggcccta	1920
atcacaacgc	ccctatccag	caggaagcag	ccagatgac	aacgacgccc	tttttctctt	1980
ttatactaaa	gtaagaaata	agaatgttag	cccaaaactgc	actattttgc	agacccctac	2040
cattttacaa	actggtcaga	gtggaaaaatt	ccaccagggc	ctgagctgtg	agaaacatcc	2100
tgtcaggcag	gtcccaggcc	taacccctgg	ctgcactaaa	ttccttctatt	atcagcagcc	2160
aaacacaccg	ccccaccccc	atttttcaca	caatcccaga	cctctcctgc	ccgggactgt	2220
aactggtcca	gcctgttaag	gggaaggggg	ctctggcact	agctggtacc	ccctctccgc	2280
aggtctttct	cccaataaat	ctgtgttgcc	attgaaaaaa	aaaaaaaaaa	aaaaaaactc	2340
ga						2342

<210> 13

<211> 1666

<212> DNA

<213> Homo sapiens

<400> 13

gggtggagttc	gcacctccag	ctcggggccga	tgtggaagct	ttggagagct	gaagagggcg	60
cgggcgcgct	cgggcgcgcg	ctcttccctgc	tgtctcttcgc	gctaggggtc	cgccagctgc	120
tgaagcagag	gcggccgatg	ggcttccccc	cggggcccgc	ggggctgcca	tttatcggca	180
acatctatcc	cctggcagcc	tcatccgagc	ttccccatgt	ctacatgaga	aagcagagcc	240
aggtgtacgg	agagatcttc	agtttagatc	ttggaggcat	atcaactgtg	gttctaaatg	300
gctatgatgt	agttaaaggaa	tgccttcttc	atcaaagcga	aatttttgcg	gacagaccat	360
gccttcccttc	attcatgaag	atgacaaaaa	tgggaggctt	actcaattcc	agatatggcc	420
gaggatgggt	tgatcacaga	cgattagctg	taaacagttt	tcgatatatt	ggatatggcc	480
aaaagtcttc	tgaatctaaa	atcttgggaag	aaaccataat	tttcaatgat	gctattgaaa	540
catacaaaag	tagacctttt	gacttttaaac	agttaataac	gaatgctgtt	tcaaacataa	600
ccaatctgat	cattttttgga	gaacgattca	cttatgaaga	caccgatctt	cagcacatga	660
ttgagttatt	tagtgaaaaa	gtggaaactag	ctgccagctg	ctcagtcttc	ttgtataatg	720
ccctttccatg	gattggcctc	ctgcctttttg	gaaaaacatca	acagctgttt	agaaatgcag	780
ctgtagtcta	tgattttctc	tccagactca	ttgaaaaaag	ttcagtcaac	agaaaagcctc	840
agctacctca	gcatttttgt	gatgcttatt	tagatgagat	ggatcaaggt	aaaaatgacc	900
catcatctac	ttttctccaaa	gaaaaccta	ttttctcagt	gggtgaactc	atcattgctg	960
gaactgaaac	tacaaccaat	gtgctacggt	gggcgatctt	tttcatggcc	ctttatcccta	1020
atatctcaag	acaagtccag	aaagagattg	atttaattat	gggcccataa	gggaagcctt	1080
cttgggacga	caaatgcaaa	atgccttata	ctgaggcagt	tttgcataga	gttttaagat	1140
tctgtaatat	agttccatta	gggatttttcc	atgcaacctc	tgaagatgca	gttgtacgtg	1200
gttattccat	tcctaaaggc	acaacagtaa	ttacaaatct	ttattctgta	cactttgatg	1260
aaaagtactg	gagagaccca	gaagtgttcc	atcctgagcg	atctctggac	agcagtggat	1320
atcttgcctaa	gaagggaagct	ttgggtccctt	tttccctagg	aagaagacat	tgtcttggag	1380
aacacttggc	tgggatggaa	atgttcttgt	tttttccagc	attgcttcag	agggtttcatt	1440
tgcattttcc	acatgaacta	gttccagatc	tgaagcccag	gttaggcattg	acattgcagc	1500
cccaacccta	cctcatctgt	gctgaaagac	gctgaaactg	cctgggatgt	tttccgggaac	1560
aagaatgtat	acttgcctta	tccctgaact	tgggttcta	aaatcaatgt	gtgtattaga	1620
ataaaaagtc	cagcatcaaa	aagmcaaaaa	aaaaaaaaaa	aaaaaa		1666

<210> 14

<211> 2027

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (294)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1976)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1981)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1985)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2021)
 <223> n equals a,t,g, or c

<400> 14

ggcagcagct	gggagcagct	ctgcgtgcgg	ggcctcagag	aatgaggccg	gcgttcgccc	60
tggtgctcct	ctggcaggcg	ctctggcccc	ggcggggcgg	cggcgaacac	cccactgccc	120
accgtgctgg	ctgctcggcc	tggggggcct	gctacagcct	gcaccacgct	accatgaagc	180
ggcaggcggc	cgaggaggcc	tgcatacctgc	gagggtggggc	gctcagcacc	gtgcgtgcgg	240
gcgcccagct	gcgcgctgtg	ctcgcgctcc	tgcggggcagg	cccaggggccc	ggangggggc	300
ccaaagacct	gctgtttctgg	gtcgcactgg	agcgcaggcg	ttcccactgc	amcctggaga	360
acgagccttt	gcgggggtttc	tccttggtgt	cctccgacct	cggcgggtctc	gaaagcgaca	420
cgctgcagtg	ggtggaggag	ccccaacgct	cctgcaccgc	gcggagatgg	gtacttccag	480
gccaccgggt	gggtcgagcc	cgcagctgga	aggagatggc	atgccacctg	ygcgccaacg	540
ctacctgtgc	aagtaccagt	ttaggtcttt	gtgtccttgc	ccgcgccccg	gggcccgcctc	600
taacttgagc	tatcgcgcgc	ccttccagct	gcacagcgcc	gctctggact	tcagttccacc	660
tgggaccgag	gtgagtgcgc	tctgcccggg	acagctcccc	atctcagtta	cttgcatacgc	720
ggacgaaatc	ggcgtctgyt	gggacaaatc	ytccggggcg	gtgtttgtgtc	cctgccccgg	780
gaggtagctc	cgtgctggca	aatgcgcaga	gctccctaac	tgcctagacg	acttggggagg	840
ctttgcctgc	gaatgtgcta	cgggcttcga	gctgggggaa	gacggccgct	cttgtgtgac	900
cagtggggaa	ggacagccga	cccttggggg	gaccgggggtg	cccaccaggc	gcccggccggc	960
cactgcaacc	agccccgtgc	cgcagagaac	atggccaatc	aggggtcgacg	agaagctggg	1020
agagacacca	cttgtccctg	aacaagacaa	ttcagtaaca	tctattcctg	agattccctg	1080
atggggatca	cagagcacga	tgtctacctt	tcaaatgtcc	cttcaagccg	agtcaaaggc	1140
cactatcacc	ccatcaggga	gcgtgatttc	caagtccaat	tctacgactt	cctctgccac	1200
tcctcaggct	ttcgactcct	cctctgccc	ggtcttcata	tttgtgagca	cagcagtagt	1260
agtgttgggt	atcttgacca	tgacagtact	ggggccttgc	aagctctgct	ttcacgaaag	1320
ccccctcttc	cagccaagga	aggagtctat	ggggcccggc	ggctggagag	tgatcctgaa	1380
gcccgtctgt	ttgggctcca	gttctgcaca	ttgcacaaac	aatgggggtga	aagtcgggga	1440
ctgtgatctg	cgggacagag	cagagggtgc	cttgcgtggc	gagttcccctc	ttggctctag	1500
tgatgcatag	ggaaacaggg	gacatgggca	ctcctgtgaa	cagtttttca	cttttgatga	1560
aacggggaac	caagagggaac	ttacttctgt	aactgacaat	ttctgcagaa	atcccccttc	1620
ctctaaattc	cctttactcc	actgaggagc	taaatcagaa	ctgcacactc	cttccctgat	1680
gatagaggaa	gtggaagtgc	ctttaggatg	gtgatactgg	gggaccgggt	agtgcctggg	1740
agagatattt	tcttatgttt	attcggagaa	tttgggagaa	tgattgaact	tttcaagaca	1800
ttggaaacaa	atagaacaca	atataattta	cattaaaaaa	taattttctac	caaaatggaa	1860
aggaaatgtt	ctatgttgtt	caggctagga	gtatatgtgt	tcgaaatccc	agggaaaaaa	1920
ataaaaaata	aaaattaaag	gattgttgat	aaaaaaaaaa	aaaaagggcg	gcccgcncatg	1980
ngggnccaag	ctttacgtac	gcgggcatgc	gacgtcaagc	ncttcca		2027

10054988.012502

<210> 15
 <211> 2334
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2278)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2290)
 <223> n equals a,t,g, or c

<400> 15
 gggagtgtgg ctgcagaacc cagggtggcag ggcttttccctc agggcccttta ctcctgacct 60
 ggacgaggcc ggggcttccct caaggaggct ctctgactgc cacccttgcc tgcctgcccg 120
 gccctgcaca acatgcagcc ctccggccctc gagggtcccg gcacgtttgg tccgtggcct 180
 ctgctgagtc tgctgctcct gctgctgctg ctccagcctg taacctgtgc ctacaccacg 240
 ccaggccccc ccagagccct caccacgctg ggccgccccca gagccacac catgccgggc 300
 acctacgctc cctcgaccac actcagtagt cccagcacc agggcctgca agagcaggca 360
 cgggcccctga tgcgggacct cccgctcgtg gacggccaca acgacctgcc cctggctccta 420
 aggcagggttt accagaaagg gctacaggat gttaacctgc gcaatttcag ctacggccag 480
 accagcctgg acaggcttag agatggcctc gtggggcgcc agttctggtc agcctatgtg 540
 ccatgccaga cccaggaccg ggatgccctg cgcctcacc tggagcagat tgacctcata 600
 cgcgcctagt gtgcctccta ttctgagctg gagcttgtga cctcggctaa agctctgaac 660
 gacactcaga aattggcctg cctcatcggt gtagagggtg gccactcgct ggacaatagc 720
 ctctccatct tacgtacct ctacatgctg ggagtgcgt acctgacgct caccacacc 780
 tgcaacacac cctgggcaga gagctccgct aaggcgctcc actccttcta caacaacatc 840
 agcgggctga ctgacttttg tgagaagggt gtggcagaaa tgaaccgcct gggcatgatg 900
 gtagacttat cccatgtctc agatgctgtg gcacggcggg ccctgggaagt gtcacaggca 960
 cctgtgatct tctcccactc ggctgcccg gggtgtgtgca acagtgtctg gaatgttccct 1020
 gatgacatcc tgcagcttct gaagaagaac ggtggcgctg tgatgggtgtc tttgtccatg 1080
 ggagtaatac agtgcacccc atcagccaat gtgtccactg tggcagatca cttcgaccac 1140
 atcaaggctg tcattggatc caagtctatc gggtattgtg gagattatga tggggccggc 1200
 aaattccctc aggggctgga agacgtgtcc acatacccag tccctgataga ggagtgtctg 1260
 agtcgtggct ggagttagga agagcttcag ggtgtccttc gtggaaacct gctgcgggtc 1320
 ttccagacaag tggaaaagggt acagggaaga aacaaatggc aaagccctt ggaggacaag 1380
 ttcccggatg agcagctgag cagtctcctg cactccgacc tctcacgtct gcgtcagaga 1440
 cagagtctga cttcaggcca ggaactcact gagattccca tacactggac agccaagtta 1500
 ccagccaagt ggtcagctctc agagtccctc cccacatgg cccagtcct tgcagtctg 1560
 gccaccttcc cagtccttat tctgtggctc tgatgacca gttagtcctg ccagatgtca 1620
 ctgtagcaag ccacagacac cccacaaaagt tccctgttt gcaggcacaa atatctcctg 1680
 aaataaatgt tttggacata gaaaaaaaaa aaaaaaaaaa ggcggcgct cttagggatc 1740
 cctcgagggg cccaagctta cgcgtgcatg cgacgtcata gctctctccc tatagttagt 1800
 cgtattataa gctaggcact ggccgctgct ttacaacgtc gtgactggga gatctgctag 1860
 cttgggatct ttgtgaagga acctactctc tgtgggtgtga cataattgga caaactacct 1920
 acagagattt aaagctctaa ggtaaatata aaatttttaa gtgtataatg tgttaaaacta 1980
 gctgcataat cttgctgctt gagagtcttg cttactgagt atgatttatg aaaatattat 2040
 acacaggagc tagtgactct aattgtctgt gtattttaga ttacagctc caaggctcat 2100
 ttcaggcccc tcagtcctca cagtctgttc atgatcataa tcagccatcc cacatttcta 2160
 gaggttttac ttgctttaaa aaacctycca cacctcccc tgaacctgaa acataaaatg 2220
 aatgcaattg ggggtggtaa cttgggttaat ggagcttata atgggtacca taaagcantg 2280
 catcacaaan tttcccaata aagcattttt tccctggaatt taaatggggg ttgg 2334

<210> 16

1054988.01253

<211> 2608
 <212> DNA
 <213> Homo sapiens

<400> 16
 ccacgcgtcc gcacagggct caggctgggg tcagaggcca ctgagatgcc agctcccttga 60
 gagcagtggg ggtgtcccag gccagagcag cctcttccct ccttgggtccc agaaaaaccc 120
 ttgcagtaaa tgggtggcctc tgggtgggtta cttctagcgc aggtctccct ccttccctcta 180
 gctccctccc gtgccctggg tgctgggtgc tggatggatg ggcgtccctc agctccctccc 240
 ggtgcccctgg gtgctgggtg ctggatgggt gggcgtccctc tagctccctcc cgggtgcccctg 300
 ggtgctgggt gctggatggg tgggcggccac ggtgcaccct tgttgggctg cctgtgcccg 360
 agtggcctct gcagctctta tgtctgcctc taatgggatg tggcctctga ctgctcgtt 420
 cttaagggga tagtgggtcg gctaagatct gatcgccagg actgcttctt gggcagggtg 480
 tgggaaggcg gaaccaagcc gtccgtgccc ctaggggagcc gagactgccc gaaagaagag 540
 cggcaggagg gggcgtgggt gtgcagcccc acccccgga ggggtcttag gcactgggaa 600
 ggaaagtccc gtggaggaa ttgggtgggt gtccacaccc gcctcgtgtt cttggagtct 660
 tgatctgtcg tggcggggtc gctggcacag gactaaacat ggctgaggct gggctccagc 720
 cagatctggc tggggacagc accgcgtggg ccaggatcc accagagca ggcaggccctt 780
 gctggggccc cagtcaagt cacttccagt gaggagagcc agccgggagg tcagtgccag 840
 agctctgggt gagcccagac cctgccttcc ctgagggccc cccctgtcgc cggcctgggg 900
 tccctgtctt cctatccctga ctcttgcccc agggccacca cccctgaact gtgccctggg 960
 gccccacccc tccacctggc cgactccatc tctgggctctg tcagtccacc tgggtccctc 1020
 ctggggccctg atgcctggac cctctgtgcc aagcaccacc aagcaaagg gatgacctg 1080
 ggcacccccca aggtgtctag actacagcca gtgagccctt gctgggggccc aaagtcatgg 1140
 aggggtgctg gggccttcca acctggaagg agggaggagg agagcaggca gcaggggcagg 1200
 gggaagaggga ggagtggccg atctgcacag agccctacgg gccagagag cggcgcctgg 1260
 cccctgtgaa ctgtagccac ggcctgtgtg tgggctgccc gcacaggctg ctgggctcgg 1320
 cctccagtgc cgacctgggc cgggtgctgt gcccgtgtg ccgcagaaga cggcctgtgt 1380
 ggagtgggag atctgcccgc tacaggagga gctgctacag gccgacgggc cctcacgcca 1440
 gccccgccga gaggccccct catcctatca ccgcaacctt gggccctggg gctccctgga 1500
 gcaccgctac cagctgctgt tccctggcagg gcccgtgggc gggcggggct gctgccccct 1560
 cctgccccct ccacctgccc tgggtgcccc gctctggacc ctgcccggagc ggggaccttg 1620
 tgccccccgc ctggcgctgc tgagcctgct ggcccttgag cttctggggc tggctgtgtg 1680
 cttcacgccc ctccctgtgc tgggactgct cttcgtgctc ctggaccgct ctggccgctg 1740
 agcagagccc aggcagcccc cggcgcaaca ggccaggggg cccagactgg cccacgtccc 1800
 catgcctggg tgctgtgagg cctgatgacc aggttgga aaaccaagg tgggtccagg 1860
 gcagtggcct tcaatcaaga cctcccattg ctgaaccac aaccagggtt accagaggc 1920
 ctgacctgac agagtccatg gctgcactgc tgcccagaca ctagtgaac ccaaggacac 1980
 cagcgcccaa ggacagctcc tggaggaggc cagcccagca ggaaagtctg tgagcaggac 2040
 cccattcacc ctgcggcaga cgggcaccgt actggccacg ggctgacgcc ggccacactt 2100
 cccctccgag ggccagctga gcacagcagg catgaaagca aacagagata cagcagttag 2160
 tcagttccct ggagagggca gggactccgc ccacctgtg ttcagataag ggccagtgtg 2220
 tgtccctgaa ggtcaggcca gccgggggag ggggtccatg tgcgaaaatt cagcctgcaa 2280
 aggtccctct ccccaactga tcaggcccag accagggtgg ggttggcgct ggcctgtgtt 2340
 gcagggggaca agggcccacc caggccttgg aacataagct ctgcccctgc acacctcat 2400
 gtcaccacac ctgggatgga gacatcaggt ggcccagcga gagatggagg actgatccctg 2460
 gaacgtgaag cagctttcaa taaaccagct cctggggaaa aaaaaaaaaa aaaaaaaaaa 2520
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2580
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2608

<210> 17
 <211> 1291
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1279)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1286)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1290)

<223> n equals a,t,g, or c

<400> 17

aaacctcttc	tataggtaaa	gctggwacgc	ctgcagggtac	cggtccggaa	ttcccgggtc	60
gcccacgcgt	ccggaaagag	gaaacataga	ggtgccaaag	gaacaaagac	ataatgatgt	120
catccaagcc	aacaagccat	gctgaagtaa	atgaaaccat	acccaaccct	taccacccaa	180
gcagctttat	ggctcctgga	tttcaacagc	ctctgggttc	aatcaactta	gaaaaccaag	240
ctcagggtgc	tcagcgtgct	cagccctacg	gcacacacac	tcggggaatc	tttgctagca	300
gtcaaccggg	tcaaggaaat	atacaaatga	taaatccaag	tgtgggaaca	gcagttaatga	360
acttttaaaga	agaagcaaag	gcactagggg	tgatccagat	catgggttga	ttgatgcaca	420
ttgggttttg	aattgttttg	tgtttaatat	ccctctcttt	tagagaagta	ttagggtttg	480
ccctacttgc	tgttactggg	ggatacccat	tctgggggtg	ccctctcttt	attatctctg	540
gctctctctc	tgtgtcagca	tccaaggagc	tttcccgttg	tctgggtgaa	ggcagcctgg	600
gaatgaacat	tgktagtctt	atcttggcct	tcattggagt	gattctgctg	ctgggtggata	660
tgtgcatcaa	tggggttagct	ggccaagact	actgggcccgt	gctttcttga	aaaggcattt	720
cagccacgct	gatgatcttc	tccctcttgg	agtctcttct	agcttcttgc	acagcccatc	780
ttgccaaacca	agcaaacacc	acaaccaata	tgtctgtctt	ggttattcca	aatatgtatg	840
aaagcaaccc	tgtgacacca	gcgtcttctt	cagctctctc	cagatgcaac	aactactcag	900
ctaactgccc	taaaagaaaa	aggggtatca	gtctaacttc	atggagaaaa	actacttgca	960
aaaacttctt	aagaagatgt	cttttattgt	ctacaatgat	ttctagtctt	taaaaactgt	1020
gttttgagatt	tgtttttagg	ttgggtcgct	atgatggctg	tatctccctt	cactgtctct	1080
tcctacatta	ccactactac	atgctggcaa	aggtgaaggga	tcagaggact	gaaaaactgat	1140
tctgcaactc	tcttaaagtt	agaaatgttt	ctgttcataat	tactttttcc	ttaataaaaat	1200
gtcatttagaa	acaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaagggcg	gccgctctag	1260
aggatccaag	cttacgtang	cgtgcntgcn	a			1291

<210> 18

<211> 3129

<212> DNA

<213> Homo sapiens

<400> 13

cggcacgagg	ggagaccgaa	tggcggggtg	aggggagcta	ctgcgtccgg	ctttgcaggc	60
cgttcctttc	aggggttggc	cagcaatggc	acttcacctt	ggcagcagcc	atttgctggt	120
tgcagtggca	gtttctttgg	ttcttttttg	cattccttga	atcagtttca	tcactctctc	180
ttggagttag	caagagtgcg	cagtcagttt	ccctctccgt	gaaggctgag	tcccaattcc	240
atagggtctt	gtgccagact	tttagtctct	gataactccg	aaatcccttc	ttctgttttc	300
taagctctac	aggtattcta	gtttttctct	caatttttca	ttactaggct	acatcagtgt	360
ccctttttct	tctttctttt	tctcactttt	tattttgtac	tttagtcctc	caacaattaa	420
caattcccca	tgttaaattc	tctctgttta	aacaactaac	gggctctctg	tattcccaact	480
agatctcggc	tgatgcaaat	ggcgtagaca	atcaaatgat	caatcaatca	gcaaatccaa	540
tttccctcta	gccactaaag	ggacttaata	taattgaatg	attataaaaat	tctgatccca	600
tttatctcaa	gccattgaaa	atatttttct	tgtgattata	agatacgtaa	ttttaaaaaa	660
tgattttcta	aatcaggatt	cttaccagat	tattttcacag	cttattcact	cattgattgc	720
tttccctcca	cccttgttag	cttttgtatg	cctgtcctgc	attttaaacc	aagggtatgag	780
gaggataaaag	taaatagtaa	atgggtatgat	agtggccaaa	actttgaatc	tttttcccta	840
ttcatcatct	ttgtgcaagt	tggtagggag	gtccactaat	tcagccctccc	cattccctgt	900
cccttcaaaag	taaatcagaa	gcttcaggta	aaaagcagag	aagctaccca	agttcttttc	960

attttatttta tcatcatact aataatttttg cttttctgaaa tgattactct tacaagcagc 1020
 aaatatattt ttttaggaagt tagaattatt gatgtcacgr tttcatattc agtatcccaa 1080
 gtaaatatca ggtaaattca ggaaaaataa tacaaccatt tttctgggtta attgttttta 1140
 aatttaatat acgttcattt attcttttaa atatatattt cataaatggg gactatgtrt 1200
 tccatgacat aaaaactaag tattttttagt gggaaaattct ttgtggaatc actgaaatga 1260
 taactagtgt tagcaatact tctgtttcat gagacgagtc actttatgaa gattgcaaatt 1320
 tattttttct cccctctaga gtccatttca tgggaaaattt aaattttatt gtcttaactt 1380
 taatgttaaa catttccttc acatatggta tggccagaca tgttttcttc ttgtctgcta 1440
 ttttacattt tagatgtagt ccattcagga tctttttttt ttttttttag gagtccagagc 1500
 ttgaagtgat gcaacacttt cactctttat ctctgactta catgctaata aagacaactg 1560
 atagacaata tgatatactt tggccctaga agatccctaa tgaggaaaatt ctgtggcctg 1620
 ttttctcttc tgtgctattt ttgtctctct aaggcaggca tttttatcag ttccagtttct 1680
 tgctgtgact agttcaaaat tgttcagggc ttatatgcctg aaataagtaa tcaatttagcc 1740
 tatatatata aatatataac caaccattac aattatctaa gaatgtcagg gagtctgaa 1800
 gtggaaaacaa attaaagagt tgcaaaaatta aaagagctcg tcttccaaca gaagtgtgct 1860
 gacatatatt aaagaataaa tgaattaaag tcaccaaaga ggaacaggag ttaaaaaagaa 1920
 gaccattggt tagatggagt caggctgggt cactgccaaag gaaagcaaac aggatctctg 1980
 aaggcttggg atgaatttca gcttgcatca tcccgctgga ggggggtgatt tccccaatat 2040
 catgttagat ccatagcttg tcttgacag agtggcagta cctttcctcc actgcactct 2100
 caccactagc atagatgtaa aacacagtaa gtactcagaa actacttgaa gagtgcagtt 2160
 accagttagag acgatcgaaa catttgtttt tctagggaat atttttgctt tcttctctcc 2220
 agaactcctc ggttataatg tgttcactgc taggtcacca gtcataaaac attatgtaga 2280
 gggttactgt cattatccta atatatattt caaaaaatct ggagtatatg aaactgcctt 2340
 tcattgtaac attagacaaa aacatttatt ctatcaata cagacttaaa actgccacca 2400
 aattggaaga atatgatctt aaatttaaaa aaaccccata tacttaaaac caataatcta 2460
 tctttatcta ccttccctaaa cattaatgca tgagacttct ctraatatca tgaatatgca 2520
 ctatgatatt tatgttacat ctttttcttg ttccactta tgctagttaa atttattagt 2580
 atccttcatt gaaacactat tattttccat ggaggaaaa attttatttc ctttatgaaa 2640
 aggggtgctt acttctgaaa tcagaaattc actctgtttt ggattctggt tgtttgtttt 2700
 cacatcaact tcattctaaa tgttcattca aaattatttt tcagacttga gtccagggtga 2760
 aaatgttaac ggaattcaaaa agtagttagt caaatgaaat ttcaatatat aagtcaaat 2820
 tgaagaaaac tgaattataa aaggattcta agtttataaa gaaatcaaaa ttatgctttt 2880
 aaaaatatta tgttaactgga gaaagtaatt ttattttgag atctctcatg attctttaat 2940
 atatatattt tcttatttag atgcaacctt ttggtaacat atataggaga cagttaattt 3000
 tggtaagact acataattca tacattcttc atcttgacat acatgatcaa atactttata 3060
 acgtccacta gccttgctct tgtccactgc aatggaaaaa aaaaaaaaaa aactcgaggg 3120
 gggggccggg 3129

<210> 19
 <211> 3629
 <212> DNA
 <213> Homo sapiens

<400> 19
 ccacgcgtcc gccagagggt gggaaggaaa aattattccc atcttataaat atcttataaaa 60
 tatgtacaga tttattgtaa atcaaaattt tcttcataac tacagccctt tcccacacat 120
 aaaattcccc ctaaatcagg aacataatgt acagcctgtt ttaacttgt atttttccat 180
 tcacactatg tcacaaaaaa attctcatgg tgatccatga ttccacaggc cctgtccatg 240
 tgtttcctga gaagacagtc ctggaatgga actactaatt caaaaggcat ttttaaggct 300
 gttacacata ctgccaaatc ggccttcagg aggatgacac aaattccacc tatgtcatct 360
 gagcgtgcca ctatctgctg ctattgcccc atgtttgagg tttgtcctt tctcctcatt 420
 ctcatgggca actgtcaaca tcaccaccac tgtgatcctg aaaagaaaagg ctcaagaagac 480
 atagacagtc tgggattttt ttttttccct accttcttt gcaactgtagg gaaggagtga 540
 gatgtggctg caggattggg gaatagctaa gtcagaaatg agcagcagtg caactgtggc 600
 aatcttggag ggggggtctca gccatgaaag aaaacagggg gtgccttgcc agctggaggc 660
 tgcagaatct tagcttgggt gttttgcctt ctccgtggaa ctgacagatg acaggaatga 720
 cgtggagtat tctcatcaag cgtctcagca tagtcagtct ctgagatggc aaacttcagg 780
 caaagacacc tgggctgaaa ggtcccatat ttaaaacttg tcagtcagat aactgccac 840

caccacccctc	tgttaagatac	ctagatatagg	gaacccccaca	ctcttccccca	ataagactctt	900
tgtatcgactg	aaagacttttg	tgggttaaaaa	catatctttaa	tctaaccctgt	attttccctg	960
ctgcaatttcc	agcccttttcc	tatcttttcca	tgggtgaatga	acaccacaca	ggcttttcaga	1020
tcagacaact	tctggctccg	tcatttacta	gctgtatcag	ttaacaccag	ctgctgactt	1080
cacttctgca	tatgcattcc	aaaatttagtg	tcttaaaaata	acaactactt	attacttttcc	1140
acaagcctaa	aagtgtggctg	aatgggtcttg	ctgatctgac	ttgggttaatc	ttgggtgggac	1200
actgtctgat	tcagcatagg	ttgactgtcc	tctgcctcat	gtctctttatc	atccataaac	1260
tgcccaggct	tgcttgccctg	aaggcagaag	agtttccctact	agcaggagag	ggcaagcact	1320
tttcaatgca	caagcacctc	tcaagcctct	atttgcacat	agtttgctaa	tgtcccgcctg	1380
accaaagcaa	atcatgtggc	ttacttcggga	gtcagtgtgg	gtaggcatta	cccaaagaaa	1440
gtggctatag	ggaagcatga	agatcttagag	ccatttagtac	aatcaatcta	ccacattaac	1500
tttgtgacct	tgggcaattc	ccttagccctc	tctgagcttt	aactctataa	tctataaaaag	1560
tgcagaactt	ttttgggatt	ctttgtctata	atgtatgtaa	aatgtctgct	acacaataaaa	1620
catgccatat	ttatttaattc	tcttctctctc	tctttttcat	catttgaact	ttttctttaa	1680
tgcataatata	tatgtgcata	tatatatgtc	catctcgata	tatatatatg	tatatatata	1740
tatatatatg	acttactctg	tcacccaggc	gagagtgcag	tggcatgac	acagctcact	1800
gctggcctcga	cctcccaggc	tctgagtgaac	gtcccacctc	agcctcccag	gtagctggaa	1860
ctacagatgt	gtgcccaccac	acccagctaa	attttttctgt	atatttttata	gagaagggtt	1920
tcatttatgt	gctgaggctg	gtcttttaact	cctgggttca	agcaatccac	ccaccttgac	1980
ctcgcaaaat	attgggatta	caggcatgag	ccaccatgcc	tggcccttaa	atgcattcatt	2040
cttatacatt	cctttatata	tacaaagctc	gaagataata	ataataaaca	ttattggcac	2100
ggcttctgtt	gaattcccaa	ctcctagcct	gtgcctaatc	aagtgtgccc	tcaattcatt	2160
ccaatcgtct	ggaatttgaa	gactaaagga	atcaaagggt	atctcttccc	cttgttctctg	2220
ggaccatcaa	gttgtgaaat	gacctcttgg	ctttctgac	tgggtccact	accacaaaatg	2280
aaatagaaa	gagttaacac	atttgcatta	actgatgatt	cttaatagag	gcaataaaaat	2340
gagaaacccc	catttccctaa	tttcaaatgtg	gcttttgggga	taggataagt	atcctggccg	2400
ctccttagct	aatcaggctc	cagaaggggac	atcaatttga	gccagcgcat	cctgctgggg	2460
agacccaagg	ctgccagctc	ccttgctgag	aatggaatag	aatttttaatt	ggctgtgaaa	2520
gcacatcagg	aggaggtaca	gggaagaggt	ggtctgctcc	cccaaagcag	gttaggggag	2580
ctccaaggga	aaggactcaa	acagggtgcac	ggcagcaaga	acctcccattg	ctcaggggcc	2640
ttcccagctg	caacaccaca	gttccaatttc	cagggctgga	ctccagccta	ggtgaaggac	2700
cttctcacac	ttggggcgatt	agtactggag	cacggagcct	gtgaatcttc	tcactctctgt	2760
gcttccccca	acttccatga	gagaagcacc	acatagttac	tgtcacttgt	atttgtcaatc	2820
ttcgacttca	gagagggtctc	caaatataag	ctcaactccc	cagtgtactg	tgtgtgtgccc	2880
attagtcocat	gtgtatgggtc	tgaagcaaatg	gcacagcatt	cctgtactgt	tgtttcagag	2940
caatgtgaat	ttatttccact	cacaataaat	taatctaact	atgcttaggg	caaagtgtgt	3000
ctcatggtaa	tgagtatgtc	ctttctgcca	tggcaatttc	tggaaacacac	atatagacaa	3060
gaatgacatg	tgaagggtcaa	tagatgagac	tatgaaaaaac	aagacaatat	agctcttttag	3120
cataaaatgta	caatgatgca	tgtgggttttt	ggagatttgt	ggacaaatta	cttaacctct	3180
tgggtgcctta	gttttctaat	tattaaaaatg	agggcaacag	tattgtctgat	ctaataagggc	3240
ttttggaaa	aataatgaga	tgtaaaagagc	ttagaatagt	gcagagtctt	aataaacatg	3300
tcttctgtgat	tccttcttagt	gaagtgacat	agagaagtgg	gaccagtcat	tgacccaccc	3360
aagctctgtc	aacctagtgg	tatagtaaat	ctgttggcaa	aaagcaaaagc	agaacaacaa	3420
aaaaacgcaa	gcaaaatcat	tgttttcagg	aaactatctt	gtgagacaga	agcttgataa	3480
aaattcaaaa	tttgcagtaa	actctacttc	acttaacttc	taaaactcac	agcaataaac	3540
cattacttag	aacaagtaag	cagtttctgt	tttatttgtgc	attttgatat	ttattttcaa	3600
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa				3629

<210> 20

<211> 1144

<212> DNA

<213> Homo sapiens

<400> 20

tcgacccacg	cgtccgcgct	tgacttgctt	ccagacaaaag	gttgtctcaa	gtttgttgct	60
caaaccgagt	tctggagaac	gccatcagct	cgctgcttaa	aattaaacca	caggttccat	120
tatgggtcga	cttgatggga	aagtcacat	cctgacggcc	gctgctcagg	ggattggcca	180
agcagctgcc	ttagctcttg	caagagaag	tgccaaagtc	atagccacag	acattaatga	240

gtccaaactt	caggaactgg	aaaagtaccc	gggtattcaa	actcgtgtcc	ttgatgtcac	300
aaagaagaaa	caaattgac	agtttggccaa	tgaagttgag	agacttgatg	ttctctttaa	360
tgttgtgggt	tttgtccatc	atggaaactgt	cctggattgt	gaggagaaa	actgggactt	420
ctcgatgaat	ctcaatgtgc	gcaatgtacc	tgatgatcaa	ggcatttcctt	cctaaaaatgc	480
ttgctcagaa	atctggcaat	attatcaaca	tgtcttctgt	ggcttccagc	gtcaaaggag	540
ttgtgaacag	atgtgtgtac	agcacaacca	aggcagccgt	gattggcctc	acaaaaatctg	600
tggctgcaga	tttcatccag	cagggcatca	ggtgcaactg	tgtgtgcccc	ggaacagttg	660
atacgccatc	tctacaagaa	agaatacaag	ccagaggaaa	tcctgaagag	gcacggaatg	720
atctcctgaa	gagacaaaag	acgggaagat	tgcgaactgc	agaagaaata	gccatgctct	780
gcgtgtatct	ggcttctgat	gaatctgctt	atgtaactgg	taaccctgtc	atcattgatg	840
gaggctggag	cttgtgattt	taggatctcc	atggtgggaa	ggaaggcagg	cccttccctat	900
ccacagtga	cctgggttacg	aagaaaactc	accaatcctc	tccttccctgt	taatcacatg	960
ttaatgaaaa	taagtctctt	ttaatgatgt	cactgtttgc	aagagtctga	ttctttaagt	1020
atattaatct	ctttgtaatc	tcctctgaaa	tcattgtaaa	gaaataaaaa	tattgaactc	1080
atagcaggaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaact	1140
cgag						1144

<210> 21

<211> 1443

<212> DNA

<213> Homo sapiens

<400> 21

ggaaccattg	gcctatatctg	ggttggatct	attattatga	gtgttgttgt	ttttgtgcca	60
ggaaacattg	tagggaagta	tggaaacacga	atttgcctctg	cttttttctt	aagcatacca	120
tatacttgtc	ttcctgtctg	ggctgggttct	agaatctata	atcagccatc	agaaaattcat	180
aattaccctt	caaagggttat	tcaagaagcc	caagcgaag	acctgctgag	aagaccattt	240
gatttaattg	tggttgtgtg	ttcctctctg	gcaactggat	tttgcctgtt	cagaggctctg	300
attgcttttg	attgcccctc	tgagctctgc	cgatttatata	cgcaatttca	agagccctat	360
ctaaaggatc	ctgctgctta	tcctaaaatt	cagatgcttg	catatatgtt	ctattctgtt	420
ccttaccttg	tgactgcact	gtatggctta	gtggttcctg	gatgttctctg	gatgcctgac	480
atcacattga	tacatgctgg	aggtctggct	caggctcagt	ttcttcacat	tgggtgcatct	540
cttcatgcta	gaactgctta	tgtctacaga	gtccctgaag	aagcaaaaat	ccttttttcta	600
gcattaaaaca	tagcatatgg	agttcttctc	cagctctctg	cctatcgttg	tatctacaaa	660
ccagagttct	tcataaaaaa	aaaggcagaa	gaaaaagtgg	aataaaaaata	ttacttcatg	720
ttcctctctt	ctaaattact	aacttttgtt	atactgggtac	tgataatttg	tcccatttca	780
ctctcttctc	atacgtgagt	acttaagaat	atgtacattc	ttgctctgca	ctgtatgtgt	840
gagctatatg	gtattgtgta	aatttttttt	gaaggaaaaat	ggaaattctt	gagaaacagt	900
ttgttttaag	aaatatattc	aaaatcattt	gtgaataaac	ttgatcatcc	atctcaatat	960
tgtttgacat	ataaaaataat	tataagtgtg	aaaaattaca	atttagtgcc	aacagttagtg	1020
agcatgaaat	gaaactattc	aaaagagaa	atggcctgtg	catattaaaa	aattcaaaac	1080
agtgaatgca	gactggagga	gtaacttttg	caaataagat	gaatatgctt	cattactaaa	1140
ctcaatatca	aaggcaaatc	atcagaatat	ttttaaatgt	tgtttgaaaa	atgttttccc	1200
aaggaaaagt	tatcatttgc	tgtgttttca	agaaaaattac	tttactaaa	tttttttgtg	1260
tgaattttaa	cagctaaata	gggatcagta	actttatctc	tatccttaac	gaacatttgt	1320
tttattgggt	gctggaaata	tttctattgt	atctctgtgt	atatttttaa	taaaatttat	1380
tttggcctct	taaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaactc	1440
gag						1443

<210> 22

<211> 1053

<212> DNA

<213> Homo sapiens

<400> 22

cttcgctgggt	gggaagaagc	cgagatggcg	gcagccagcg	ctggggcaac	ccggctgtctc	60
ctgctcttgc	tgatggcggt	agcagcgccc	agtcgagccc	ggggcagcgg	ctgccggggcc	120

gggactgggtg	cgcgagggggc	tggggcgagg	ggtcgagagg	gcgagkcccc	tgtgtccctca	180
gccatcccaa	gaagggtttg	ctgggtccctc	ctttccccc	gtcccacgag	gccacctggg	240
ccagccccct	gtccctctgcc	ttctgtctggc	agaggagcag	ctggactggg	gcctttggca	300
cagcagccgg	tgtctccctgc	gcccgcctcc	cccatggccc	catgcagccc	caggggcttc	360
ccccctgccc	atggagtaga	gcccagagatc	ctggccacta	tgccagtctc	gacctcgcat	420
ccccctaccc	cgagcccatg	cagtctggga	acatgcgcgc	ttctctccag	cctctgtgcc	480
tttgttccag	gtggtctcac	cctcctgtcc	ctggctgggc	taggtgggtcc	tgtccaggct	540
cctgcagcgc	ccccctcact	ttgacactgg	actaggatgc	agcctccctt	ctgtgtcccc	600
ttgagggtag	cctgggtccc	ctcatcaggg	gcagaggcat	gaaagagtcg	gggctggatg	660
gccaggggct	tctggggccc	acgcctagtg	cagccccctg	ggtcgtgggt	tgacatttgt	720
ctgcctgggt	caaacaagga	atccttgcct	ttaagggtgac	aggccctcca	caggcttcca	780
gacttgaagg	aaaaggttta	agaaagaaaa	caaaaccaac	agttagtggc	cgggtgaggg	840
ccaggctggg	cagcgtcccc	tcttgcacac	ccaggggcct	ccctttctgc	tggagtcccc	900
tgtgtccctc	accacccccc	gcccgcacgc	atcctacctg	gactgcgggt	ctacgagggc	960
ctgcggggct	ttgtctgtgt	ccaccctccc	tgtaaagtcta	tttaaaaaca	tcgacgatac	1020
attgaaaaaa	aaaaaaaaaa	aaaggggcgg	cac			1053

<210> 23

<211> 741

<212> DNA

<213> Homo sapiens

<400> 23

gtagactctct	ggaccttgra	tgtcactgag	tttaagagaa	aggtagtccc	aggactcttg	60
tctagcagct	gagtaaggct	caggcccttag	aatggcttag	cttgctccat	tgcaatgcat	120
catcctggat	gttaaaatcc	agctgtctct	ctgaaamcta	aatatgaaa	actgagattt	180
agtcacactt	gctgagattt	aatttacata	taataaaatg	aatcatttta	actgtgcagt	240
tcagttaagtt	tctgaaaaatg	tctatcacaga	ttcatgtaac	tgccacccaa	attgagaaa	300
gacacttcca	ccatctcaaa	agattctgtg	tgttcccttg	tagtaagtct	cttctacccc	360
atccctagac	aacagctgat	gtgctgtcat	tgtacacata	tattagcttt	gcctgtccta	420
gaacttcacg	ttaatgggaa	gcacccctgt	tgtactgttt	tgtgtctggc	ttcttcagt	480
tatttttgaa	atctatccac	attgttctgt	gtatccaaa	tgtgttcttt	ttcatttgcc	540
aataatgttc	tgttatatga	atataattaca	aaatatctct	ctgtttatct	attcgtggat	600
ttttgcattc	gttccagttt	ggggctatta	tgaataaagc	ttctgtgaaa	attcaaaaaa	660
aaaaaaaaaa	aaaatgacct	tcgagggggg	gcccggwacc	caaaacggag	tatttccctt	720
tttccccccc	cccgcccccc	g				741

<210> 24

<211> 946

<212> DNA

<213> Homo sapiens

<400> 24

ggcacgagcg	aaagcctctc	tcttaacaac	ggtgccgcac	agcttttgccc	ttgaaagcat	60
ctctactgga	ccggaacaca	ctcatgtgcc	ccgctccctg	acccagccaa	ggctgcccc	120
tcactctccaa	ggctgagatg	ttgccgggtg	tcccatgaga	gcctgcccc	gggctcaggt	180
gcccccttac	cttctgtctg	atggacatct	ggctgtgagc	caggctgggg	tcattggccg	240
ggtgagcggg	ggcaggggtg	gacggaggct	tcgagggccc	atcactagta	gggtcattac	300
ctcttgccaa	cagccggggg	tgggagctct	ggtctcgctc	aggccagagc	ttctcaacct	360
ggagtccctg	ggggtggctg	ccaaagggtg	gtatgacaag	cacgtatccc	tggacatttc	420
cggggagaggg	tctggggctt	tggtcacatt	ctccaagggc	tgctgggctt	cggagcagtc	480
cccccccatg	tctcagccac	tacaggggtc	ctctctctcc	ttgcacccca	gacctccgc	540
tgccttggtg	atgagcagaa	ggaaagtctc	ggggtgtgct	caaagtccag	agagcaaaa	600
atgccaggca	aaagctcccc	ggaaaagccg	gaggagtctg	gggtggccac	cgggatgtgg	660
agcagcgagg	gcaaagacgg	tgaacacagc	cctccagctg	tctgagcctc	agttttctaa	720
tctgtagaat	ggggatgata	ataccctgct	cacaagaatg	ttgagacaat	tcacagagac	780
gttctggagc	ccctttcccc	cgagaccggc	attcatgagt	ctgctggggc	cagaaaaacc	840

atctcagggg cccagcgggg cccccaggag agtctggcgg tgcaagcgct gtataaacca 900
caagcggttct ccaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 946

<210> 25
<211> 831
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (27)
<223> n equals a,t,g, or c

<400> 25
catcnacggm naccnctact ataggtnaag ctggtaacgcc tgcagggtacc ggtccggaat 60
tcccgggtcg acccagcggt ccggggggaaw tcccagtcga tttttccaag cagtactccg 120
cttccctggat gtgttttgtct ctcttggctg cactggcctg ctctgctgga gacacatggg 180
cttcagaagt tggcccagtt ctgagtaaaa gttctccaag actgataaca acctgggaga 240
aagttccagt tggtaaccaat ggaggagtta cagtgggtggg ccttgtctcc agtctccttg 300
gtggtaacct tgtgggcatt gcatacttcc tcacacagct gatttttctg aatgatttag 360
acattttctgc cccgcagtggt ccaattattg catttgggtgg tttagctgga ttactaggat 420
caattgtgga ctacatactta ggggctacaa tgcagtatac tgggttggat gaaagcactg 480
gcatgggtgg caacagccca acaataaakg caaggcacat agcagggaaa cccattcttg 540
ataacaacgc agtgaatctg tttctctctg ttcttattgc cctcttgctc ccaactgctg 600
cttgggggtt ttggcccagg ggggtgaact tatttcattt ccmcagggtg aaactgaatg 660
ggcagttcat gktaaaaatcm cttttcatgg aaagagctct atgtaacagc ataataaac 720
tgsctacctt gcagcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggggcg 780
gccgctctag aggatccaag cttacgtacg cgtgcatgag acatcatagc t 831

<210> 26
<211> 1294
<212> DNA
<213> Homo sapiens

<400> 26
ctgcagaatt cggcacgagg ttattttcacc tctcttggcc tcagttttctc tgtgaaatca 60
ggaattaaca tgggtctctga gacccccctt tgatggtgaa tgtgtggttt ggtgattctg 120

tggccctgca	tcattgacctt	atttagttct	ctttcaacag	gggatgtttt	actgccttgt	180
aaaatccctg	tgggactgcg	tgtctttata	ggagccaggg	tgtaaatgaa	cagaattccag	240
attggttcta	atataatttta	cctctaaaag	aaagggcatg	gggaggccat	gaccttaaaag	300
caggtttttt	ctgttgtctg	tgaagcctgt	gatgattgag	agtggctggg	actggcgggg	360
cgatgttttg	gtggaagagg	gaggccatct	cgatgcgccc	cgtcccgggg	aggcaccag	420
cctgtaagga	ggtgatgtct	atctacactg	agcgcaagg	ccctgaaccg	ggggaggctg	480
aggcgggggc	tcttgattcc	cacctgtgct	cccagtggtt	aggctagtgt	ggcccgggaa	540
atgacttcca	tctctccctc	caggcatatt	taataagagg	ccagtatttt	cagattctgc	600
cgcttcttga	cgaatgtctc	agagagctgg	gaggcgccct	ggaggatgga	acccttccct	660
gagcgttgtt	gaggtgtgtc	gggggtgccc	tggcacaggc	ccctccccc	ggggggcatc	720
actgttccct	tgtcttgcat	ccccgctgtt	tcccttgccc	ctgaacaggc	gtggagatgt	780
gcacgggaca	ctcgggagcc	ggatgtctaa	cagagtggag	tgcgcgacg	gtgtggccgc	840
agcctggctg	tgccttcacg	acgcagctgc	aatcagagg	gctgtgggac	gctgtcccat	900
gtggacacag	cccactcact	gggtgtgtgt	cctgtgtgtg	gcgtgtgact	tttattgtcg	960
ttaaaaattt	atattaagat	gcggccgggg	atggtggctc	atgcttgtaa	tcccagcacc	1020
ttgggaggcc	gagacggggc	gatcacgagg	tcaggagatc	gagaccatcc	tggcttacat	1080
ggtgaaaacc	cgtctctact	aaaaatacaa	aaaaattagc	cggtgttagt	ggtgagtggc	1140
tgtagtccca	gctactcggg	aggctgaggc	aggagaatgg	cgtgaaaccg	ggaggcgagg	1200
cttgacagtga	gcccagatcg	tgccactgct	ctccagcctg	ggcgactgag	cgaaactccg	1260
tctcaaaaaa	aaaaaaaaaa	aaaaaaaaact	cgag			1294

<210> 27
 <211> 1656
 <212> DNA
 <213> Homo sapiens

<400> 27	
ggcacgaggt	tcacagcacc
gttccggagt	gtttcacctg
gtgctttccc	gcatgcctgt
cctggcgcat	gctgtgggtg
gtatgaggcg	ggtcacgttt
gtgtgctgaa	atagatttta
tgttacaaat	gtttttttgt
cataacaacc	tgaatttctt
actctcagaa	atcagtcatt
cgtgtatttt	cctcctgtgg
tatcgtgggt	gttaatgcag
gggctgagtg	tcctgcccct
acagggggcag	atctgagggt
atgcagaaac	atgggaatcct
cgccctcctga	tgccttcattg
gtctaacctg	gcttctgaaa
aatgactgag	gctagtata
caggatgttc	accattttaac
gtagggtgtg	gttctgtgtc
caggctcagtt	tagagtagac
gtagccatga	agcccagctc
ccagacggtt	ctaactcttt
ttatgttaat	tctcgatcta
catgcagaga	ccgttttctt
tgctagggcag	tcacctact
tgctgctctc	ttagctgtga
gtggagaatg	cttccctgaaa
gatccacata	tatatttaaaa
	aaaaaaaaaa
	aaaaaa

<210> 28

2054938 0130

<211> 1350
 <212> DNA
 <213> Homo sapiens

<400> 28

gtgactttcta	tattcaatag	atTTTTgtaa	atgtttaaAAC	atctatatatt	aaatgtttaa	60
acactaaata	tagagagggg	ctttacttca	atcatagagc	aacaacaaaa	ataatgctta	120
tagctaaact	gcctgttcta	gaaagcatct	gctttttcat	gttattccta	aatccctctg	180
tcatactttt	gtcattgaac	aatgctctcc	ctctcgtctt	ccatccctcat	tcagaatttt	240
tagaagacca	caatcgtgga	gatacactac	ccagtattgt	ttgatacatt	tttatttgat	300
aaacattcag	tgaggaaac	tgtgatttgc	tatatgttta	tgtatataat	cttattctgt	360
agtcattcaga	atgttaactg	aaggtacatt	tgatttttat	tttttacctg	tgtagttttc	420
ttttcttcaca	gtcaaagcat	tcatactatt	gggggtgggg	gcagggaatt	aagtgtgtgg	480
gctcgaaaat	ccattcatat	gratctgtct	acaaatgtct	ggggataatt	taaatttgaa	540
acctaaagtta	tatatagttt	ggcaatgctc	ttcttcaata	tttacaataa	taggatgacc	600
tacaagaaaa	taagtctctt	tttgcaaat	tttatcatat	taaagtgtgt	ctttttaatt	660
agcatatcta	aaataggatt	tagttcagtt	tagctcacac	aggtgtttgc	tgacattcat	720
tggccatttta	atacagtgtt	gagtggttct	ccgtaaaagt	ataagtgtta	acactacgaa	780
gaaatgcaca	cgatcattct	tgctcacttc	tataacaaac	ttacataaaa	tggattttaa	840
aattccctact	cacagcctaa	aacttctgga	gttcactacc	tttttttcaa	attcatagta	900
agatccacctg	tgtattttat	attttagtaa	agccaattat	gaagtacaag	tatcatacaq	960
gtacttttga	gctactatta	tttgaaaaaa	atctgccaaa	tagcatcttt	aggatatatt	1020
tacatttttca	ctcatctaaa	aagtatacaa	aaatadaaag	tggaaaaagg	tatctttctga	1080
atgttcaaga	gcattcctata	gtgccaaata	ataaagcacc	atttttttct	tcataaccag	1140
gattaaaaatt	catatatact	gcagggcaga	catacatatg	atagcttctg	ctgatttaatt	1200
taacccccatt	tgtaaacaga	tgaaaatttt	attttctttat	ttcattttata	agatgggtca	1260
atgtattggg	aggcttctct	tttattacag	aaagtgtata	ttggtatata	ataaatgaac	1320
ttttcaaatg	aaaaaaaaaa	aaaaaaaaaa				1350

<210> 29
 <211> 1766
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1743)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1748)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1749)
 <223> n equals a,t,g, or c

<400> 29

gctcagcgcg	ctgcccggct	ggggaccggc	gcacctgcag	cgcccgctgc	tgggccctgc	60
atcctgcctg	ggcatcctgc	gcccggccat	gacggcgcac	tcattcgccc	tcccggtcac	120
catcttcacc	acgtttctgg	gcctcgtcgg	catcgcgggc	cctgggttct	gccgaaggga	180
cccaaccggc	gagtgatcat	caccatgctg	gtcgccaccg	ccgtctgctg	ttacctcttc	240
tggctcatcg	ccatcctggc	gcagctgaac	cccctgttct	ggccccagct	gaagaatgag	300
accatctggg	acgtgctgct	cctgtggggg	tgaccggccg	cccccgaccc	aggtgcccag	360
ctctcggaat	gactgtggct	ccactgtccc	tgacaacccc	ttcgtccgga	ccctccccc	420
cacaactatg	tctgggcacc	agctccctcc	tgctgggcacc	cagagacccg	gacccgcagg	480

cctgcctgggt	tcctgggaagt	cttcccagtc	ttcccagcca	gccccgggccc	tgggggagccc	540
tgggcacagc	agcggccgag	gggatgtcct	gctccaatac	cgcactgct	ctggagtttg	600
ccctctttcc	caaggagatg	ctgctgggga	gctgggtatg	gtgggggtctt	tccctttaca	660
gacggggcag	atggccaggac	tcagcccatc	ctgaggagga	cacgtgtcct	catggagagg	720
gtgctccggc	ccaggcgggg	gagtgggtgc	ccagttagca	gctctgccac	catcctgctg	780
ggaactgggg	gggcctctat	tgggttatag	gcaaggcctt	ttctctggca	tgggaattgtt	840
aattttctga	cacgtctaga	tgtgaaattt	ctgaaaatgt	tgaagcagag	aaacattcac	900
acacaaaaag	caacatagtc	atgtgggtcc	agatggcctc	agtcctagat	gttggcacc	960
tttgctgtgt	ctcctcagag	tatcctgttc	cgctcctg	cacctggacc	tccctcagtg	1020
gatgtcttcc	ctcccccgac	cccagcctgt	cagtcaggac	acagtgcagg	tttggctctg	1080
acttgggcct	ttggctgcag	tgggggtgga	tttcagagcc	tctcatggca	gcattctaagt	1140
gaccagagct	gggatgagag	aggggaagg	gcaatgtgag	tggcgctatg	ggacgggcca	1200
gccccgtctc	tgagccagcc	cgcctctctg	ccccctggcc	ctgggctctg	tgctagggat	1260
ggtgaagaat	gggggctgtc	carcctgcag	gagtgggaag	caacacgcag	gggtcccgga	1320
cctctcmagc	cttggccctya	cgcttatccg	agctcccagt	gtgggttagca	cagagctcac	1380
ccaccttgcc	tggctcccag	ctggggcctg	tccctactgg	tgctccagg	gaagaaacga	1440
cagcctcact	tctgtatgga	ctgctgatgt	ggcctgccat	cctgttcagc	gggcattgtc	1500
tttggagcag	caggagacta	ggatgcctct	cactcacatg	ccagtccctg	gctggccagc	1560
tgctcagggc	tcaggctggg	gcctcccat	gacatcctcc	ccctacactc	cctctctgag	1620
cctccgtcgc	ccctcctgtt	gggtaagggt	gttgagtgtg	acttctgctg	aaaacctgg	1680
tcataataaa	taataaatgg	tgatgaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1740
aaaaaaaaaa	aaaaaaaaaa	aaaaaa				1765

<210> 30

<211> 2790

<212> DNA

<213> Homo sapiens

<400> 30

ccgtcttggg	ctactggcag	ctcctctcct	tgggctcctg	gctgccaggc	gttgggtgcca	60
cttctttaaag	gcctggaacc	agggaggaga	ggaaatgcta	ttgttgtggg	cttctctccg	120
ggctctgtgt	gtgcctgcta	gagcaacccc	tgtaccagc	tccctttgtc	cccaggggccc	180
ctccctctgc	cccaagcagc	cagccagtct	tgcctaggcc	aaatgcacaa	gctcagaata	240
gatctgatgg	tgagctggga	agctgtactc	agagcagagc	aaatgaggga	gggggctgctc	300
aggacccagg	ccctccatgg	gctaattgtg	gtggcagcca	tgcctcatgc	cacaccttct	360
tgcgaaactg	atggaccggg	tgggcctggc	ctgagctggg	gccacaaatc	aaatcaagg	420
ctccagcacc	cagcctgtgt	gttctgtaat	ggaaactgac	ccctccctctg	aaaacgaaa	480
ggcccccggg	ctggcaatca	gggaaagctc	cacggtgcgc	ggctgtggca	caaactctctg	540
gaaggctggc	tgactggaa	gcagggaaaa	cggcagtagc	tgggaaagga	cccacccatc	600
ttcctgctgc	tgtaaactgt	gagccactcg	cagtcaccag	atccgctgcc	accacgtctg	660
ccaggcccat	ctcaggtgcc	actccctgag	cttgggggac	agtgggcaga	gaaggcctct	720
tgtgtctcag	ctcccccgca	gtccccagcc	cttctgcctt	tctcccccca	cactgctgca	780
ccagagtga	agggctatgg	caaggggggtg	tcatctgagg	agtattcaaga	atgcagattc	840
ctgggcctgt	cccccaagg	tttggagtca	gtagggtccaa	gggccatact	ttttagagg	900
gttctgggtta	agratgaggt	gaaatgggag	atggtcagtg	tggagagggg	tgcacccact	960
caccagggtc	cgcaccagct	gctctgcccc	ttgggcatcc	acccagtgct	gccatgccac	1020
tgccaggcac	ctggcctgct	gggaaccccc	cagcccgtga	agcagtgcc	cgaggcaccg	1080
gcgctgcagg	tacttccctc	tgatggccaa	gagcatcgtg	acctttcagg	gccagaagga	1140
gggcagagcc	atgggcctgg	gcctgctttt	ccaggatcct	gcaggaaacga	gcactggcca	1200
gagaggggccc	agctgtagcc	atggctcagg	caagccccctc	agcccttgcc	cccatccctc	1260
ggacccacca	aactgcacac	acagctcctc	ttaccgtagc	ctccgtttat	gggcctttgct	1320
ttgggctttg	caggctcttg	gctcagggct	ggagtgcgct	cttgggtccct	ggtccctcgt	1380
ccacaggggc	aggcctggga	cccagctact	ctgtccaggc	cactgtggcc	agagctggaa	1440
ggcaggggcag	agggaatgtt	ccctgcaccc	tggaaagggg	agttgagtca	caagagggtca	1500
aggtgggtcc	aggtaggcag	ctgctcttag	tgcccgccta	ggagttaggt	acagtgagga	1560
gggtgggagga	aggtgcagga	cttagccttg	tgccttgccc	ccatctcccc	aggcctccag	1620
cctctccccg	ctgcctgcca	cccaaagaga	aatcacagg	gcggggcagg	aatgcaaa	1680
gtttctctcag	aacagctgaa	acattccgaa	gagggaatgg	atggggagaa	tgggtcaatac	1740

acataagacc	grgtcccaag	gagctgattt	ccaggccccc	gaggactgga	gaccgcttca	1800
cccctgcact	tcagacaccg	tttgtccccc	ggggcaaggt	ctccttactc	tgagcccagg	1860
ccgttcccc	tggtttccct	cgcccaccca	ggctgcactg	cagtgatggc	gcgggaggca	1920
ccagctctgt	ggcctgtgtc	cagcagctgc	gggtctgaag	gaatagccag	agaggagcac	1980
ctgaaccccc	tgggcttgga	cttccctgggg	ccccgctggg	atctcttcgc	tgctctagct	2040
ggcaggacac	atccccggcct	cttcttccac	ccattccccc	atgtggctga	agacattcca	2100
acaatggggg	ggggccataa	tagtttagccc	tcagtcagtt	cccggagcac	agccctggga	2160
gggggctatt	tctctcccca	ctgaaaacat	ttcaaagctg	agttacttgt	ctgaggcctc	2220
atccctcggg	agccgtctga	ctccagagtc	tgagcccccg	gctagtaccc	tatagagagg	2280
gggctctcca	aaggggctgc	tggggcatgt	gtgctgtgtg	cagaaaagag	gagaccctgg	2340
aattcagcac	cctgggtgoc	attcccagcg	tttagtttct	agaggcctca	gtttctccat	2400
cagcttatgg	gatccttgtc	tttactgaca	agaatggaat	agaaatgtaa	aagtactctg	2460
aaaagcaatt	gcccgtgaac	ttatctagaa	agaaaagacc	ctgagactcc	agaatctgct	2520
gttgccatag	ccccatatgt	gtgaattctg	caactagcca	aggctagtcc	ctttcaattc	2580
catctaaaaa	acaaaaacca	gcagggtgtg	tggctcatgg	cgtaattggg	ctgcccactg	2640
ctttgggagg	ccaaggcagg	tagatcgctt	gagcccagga	gnttgagaca	agccctggca	2700
acatagttag	atcccatttc	tacaaaaaaa	aaaaaaaaag	gaattcgata	tcaagcttat	2760
cgataccgtc	gacctcgagg	gggggccccg				2790

<210> 31
 <211> 1417
 <212> DNA
 <213> Homo sapiens

<400> 31	
ttttttttttg	attaaaaaaa
catgacgttg	gaggagcata
atgtgtgtat	gcattgcatt
gtgtgtgtgt	gttagagcctt
ggaagaacaa	gtgactccac
gatgggagag	gggagagggg
gtccctcctg	ggcaggcggt
ggccaaagat	gcacgaaacc
gcccctgntt	ctctagctga
acttgacaga	ttgggcctgc
tgactgtcct	tggaatgtgc
aaatggcctc	ttgcaacatt
atggcaaaaa	cacagtctct
gttttgtctc	cagcatgttt
catcctgcca	aggcagagct
tcctgcctca	tgtcccatcc
aggccacaca	gcctagaagt
gaaatcccag	caccagcgcc
tgccctcactt	gtctcacttg
cttgtaattc	cagcacttcg
agaccagtct	ggccaacgtg
ggcgtggttg	cgggcacctg
tgaacctggg	aggtggaggc
gtgacagagc	aagactctct
	ctcaaaaaaa
	aaaaagg

<210> 32
 <211> 1906
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE

<222> (617)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (940)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1461)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1901)
 <223> n equals a,t,g, or c

<400> 32

tctggagctc	caccgcggtg	gcggcgctc	tagaactagt	ggatcccccg	ggctgcagga	60
attcggcagc	agcccagctt	ctgggtggtt	ctggcaatct	tgggtgtccc	tgggtctgta	120
gatgcacat	cccaatctct	gccttcattt	tcatgctgca	tctccctgtg	gtgtgcacgg	180
ctgtctctgt	gtccaaatctt	tcccttttta	taaggacacc	artcatattg	gatttagagcc	240
caccctaattg	acctcatctt	aacttgataa	tctgaaagca	ccctattttcc	aaataggggtg	300
acattcarag	gggtgttagga	cttcaatata	tcttgagggg	acacagttca	acccataaca	360
cctaccaacg	gtttctggaa	tcattctctca	aaataaaacta	tctaaactct	aatctttgwt	420
tcaggggtcag	cttctagcag	aactcaatgt	aagacaccct	tttaaagatg	gtacctcaga	480
ggtacagaca	gattgtgaac	cttccctagc	acagtgtaac	aagtcccttg	caaaaaatcct	540
gattttgagtc	aacattgtaa	tttcttgctt	aaatctaaga	atatgcctyc	cagcttcttc	600
caagactatc	tgggggnagt	tgkttctagg	gtggctcaat	ttattcgttt	tgaacgctga	660
tggccgtgca	ccacaccgtg	gctcaatggg	tgttgaggac	acgttcacat	gcaataaatg	720
cacagggcctt	tgccattagg	tggcattagg	ggaaggacac	ttycagcata	ctgcagaggc	780
attctcttcc	agcctgggtg	cctgtcaagc	acctgctgag	atgactggcc	cagacggaga	840
ttgtgggggtt	gctgagccag	ccctgtcccc	tccttatctc	cggaagatgg	aataaatgcy	900
tgctcagaagg	gaggggtgct	cccattctcg	grgcaccggg	gttgcccttc	agaaaaacat	960
tgccctgcaca	ttttgtagtc	ttgaaatgaa	tctgagtggc	aattcaagcg	ggcagagctt	1020
gttttggtatt	ttagacagtt	ctacctgcgt	gctcctcttc	tctgctccag	ctctgacatc	1080
tgggtccac	atacagtggg	ctgaagtggc	atacggaccc	tgagaagagg	agaggcagaag	1140
gwr gcagctg	tggctggccc	ctcctgcctt	ctggctcctt	tggctgggtga	gggaagaaca	1200
aacacagtgtg	tgtttccagg	tcacagctgc	cagggctcca	cctgtggggg	gggtgggtcc	1260
agtctctgttc	tgagtcaaga	aatgctgcaa	atacgttctc	cttraaagag	mcctaggaat	1320
tgccattttct	ttctgcagct	ttctgtagcc	aataagcatt	tgaggaaactg	ragaaggggtt	1380
cagccctgaa	ttgcaaggga	aaactgtgtg	agtgtgtttt	agttaagaaa	aaagttaatt	1440
ctagttagac	ctgcttggtt	ncaaaacaga	tgtataggcc	agacagatgt	acagggatga	1500
ccttgacttt	cttttgtcat	tgcaaggaag	tgggggtatgt	atgacccctg	gttaagacca	1560
ataggaggcc	gggcgagctg	gcttacgcct	gtgggtcccag	cactttggga	ggccggggcg	1620
ggtggatcgc	ccgaggtcgg	gagtttgaga	tcagcctggc	caacatggag	aaaccccgtc	1680
tctactgaaa	aaaaaaaaata	cagaattggc	cgggtgtggg	ggcatgcctg	tgggtcccggc	1740
tgctcgggag	gctggggcag	gagaatggct	tgaacccggg	aggcggaggt	tgtgggtgagc	1800
cgaggtcgcg	ccattgcact	ccagcctggg	caacaggtgc	ggaactcggg	caaaaaaaaaa	1860
aaaaaaaaaaa	raactcgggg	ggggmaccca	acccgggtcg	nacatt		1906

<210> 33
 <211> 543
 <212> DNA
 <213> Homo sapiens

<220>

<221> SITE
 <222> (367)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (376)
 <223> n equals a,t,g, or c

<400> 33
 ggcacgagaa aatattgact cctatctggc cttcatcaac tgacctcgaa aagcctcatg 60
 agatgctttt tcttaatgtg accttggtca gcctcactgt ttttacctta attccaactg 120
 cccacacact tgacctgca gtcaggagt actggcttct ccttgctctc atttatgcat 180
 gtttgaggga gctgattcct gaactcatat ttaattctta ctgccaggga aatgctacat 240
 tattttctta attggaagta taattagagt gatgttggtt gggtagaaaa agagggagtc 300
 acttgatgct ttcagggtta tcagagctat ggggtgctaca ggcttgcctt tctaagtgc 360
 atattctat ctaatnctca gatcagggtt tgaaaagctt gggggtcttt ttagatttta 420
 atccctactt tctttatggt acaaatatgt acaaaagaaa aagggtcttat attcttttac 480
 acaaatctac aaataaattt tgaactcctt ctgttttaaaa aaaaaaaaaa aaaaaaaaaa 540
 aaa 543

<210> 34
 <211> 1452
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (283)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (596)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (607)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1275)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1284)
 <223> n equals a,t,g, or c

<400> 34
 gaattcggca cgagattaag ttgtgcactt taatcgggtg aattgtacat gtragttata 60
 tatctractg tagttgtwat taaaaaacaa caggaggcca tgtgggctgc taggagtagc 120
 aatgtctgry ccagccagc aggtagagac cagggtcggg cagagkagta tgggctgtgc 180
 tgcagattat ttgtgggtacc caactgttgc ataaaacagg gtgtgatctc ttgcattgct 240
 atgcatgagt ggattcccag taaattgtgc caggctgcct gantgatgtg tggcttgtgc 300
 ttcggatcgt aatgcttacc tatgctactt aagttacata cctgtgggc tctgtggcca 360

205210 88645001

ggactgtggg	ctactacctg	kagtgtattcg	ttaggggaaa	ggacccacag	cctgtgcagg	420
aggaaaaaag	catctctgag	tacaggggtgg	atgagctgga	tgagctgccc	ggcaagagcc	430
acgcacaccc	aggtgggtgag	tcttaaggat	aaggtggaat	ttgccccata	gctgtccctgg	540
acagaaaactg	cccagagaag	aatgaatgga	ggacataggg	ctctgtggtc	ccaccntttt	600
ttggganacc	tgtgactggg	cctgtttacca	tgtcaactta	gccccaaacc	catctctgat	660
tgacttgggt	gcttattttg	gcacattctt	gctccacaca	gccacataca	tactggctgc	720
tccttcsaagg	ccaggcagat	gcagcagctg	ttggggccagc	aaagaggaa	gtcctggaag	780
gttctggcct	gaacgctgca	tctgttgtgt	gacagccaca	actgctcagg	cttcccttgtc	840
tgtgggtgca	ctgtggggag	gagtgttatg	ataagaacat	tggctctcag	tctccctggg	900
gagaagtctg	gcctcacgtg	ggatttgggc	gttgccctta	ggaaggctct	ctgcatgtct	960
agttccagtt	tgtactggga	agaattaaaa	aagtctgcca	gcttcttttag	tttgtccctgt	1020
cttttctgat	gattctttct	gagatccccc	cctatcagct	caggagtggg	attttctgga	1080
gaaggaaaagt	gtcttctctg	tcctcactgc	tcaccttggg	gcattcagga	acatgggcct	1140
gatgaatttg	cttgaaaggca	gtctgtaatc	ccatcacttt	gggagccaaa	gargcggatc	1200
atttgagctc	aggagtctga	gaccagcctg	agcaacgtga	caaaaccttg	tctccaccaa	1260
acaacaacaa	caacnacaac	aacnacaaca	acaactacaa	caaactgggc	tggatggcac	1320
gctcctgtaa	tcccagctac	ttggggaggct	gagatggggag	gattgcttga	gcccaggagg	1380
tcaaggctgc	agtgaagccat	gattgcacca	ctgcattcca	gcctgggtga	cagagggaga	1440
ctgtttcaaaa	aa					1452

<210> 35
 <211> 2908
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1653)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1655)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (2850)
 <223> n equals a,t,g, or c

<400> 35						
gagctctaga	ctgatcgtag	taagtcttct	gacttaacaa	tgaaagaaag	tagaaagatg	60
cttttgggttt	tcaaaatggt	gtttttttaa	attgtctctt	gggtgaattt	actcagtgtc	120
gctttgagtt	gtatacagaa	acaaatgttg	ggaattgtct	ctcagaaatg	tgttccctaag	180
ttgtgttttc	aacttttacat	catgaggtga	agcattaggg	aaagagattc	tttcgatttg	240
tttaataatc	taattatata	gaccaaaagt	ctttacgttt	ctgctctatg	ttaatgtttt	300
agaatgggtga	ttttgtctgat	taatttttag	ctggcaattg	aaataatgtg	ctcagaataa	360
taacatgggt	atagtctctg	tatgataaa	tattcaattt	cagaatagtg	ttggaatcct	420
gagtttgaat	aatgtgttgt	atttagaaa	atagccctat	ctgtttttaa	caaaataatt	480
gtttggccgat	tgtccatggg	tgagcatgac	aaaaaatacct	cgctcgaaagg	caagcttagg	540
taactgctgg	caaaacactg	ggtgcactat	ttttctggat	aaaatttata	gttattttct	600
atattacccc	tcaaaaggga	tctcttcagg	ttaaaaatca	cgcttatgct	gaagtcttta	660
tctggtgtta	actaaaaatc	tcatacgggt	tcataaccga	ggcactaat	aattcattct	720
tatcacttgt	aaaaatttgc	tcaaaattcc	aaaaaaatat	tgattttgtt	tttagtgatt	780
ttgcaggctg	accccaacct	aagtcttgat	aacatctggg	aagtcagtat	agttctgtga	840
cttcatgttt	taactaaaga	ggaaaattca	tagatatctc	tattagattt	tataaacctt	900
caaaagtctg	aaacttaatt	ttgagtctaa	attttctgac	actggccccc	tttaattatt	960
taagtttttg	tccactttct	taagtaaaaa	aaacatttaa	tcactagtta	gcccttaact	1020

gggaaactca ggtaaatgaac tgctgacttt tctaaaagtcc ttttaactgat caattctgtta 1080
 tagaggggata tttatctaac cactttccgt atttttacaag tgctctttct aaaaaggaat 1140
 aactattata gctctatttc cccaatctct ataggactca tgagagattg cttgtgtaaa 1200
 tataaaagca ccataatgtgt tcttaactcc tatggctgct tgaagctcat gatgaaaaag 1260
 tctttttgtc agtttttaatt gtttaagtaca gaacaaacaa ttgtttgggt atggcctggg 1320
 tgaaagagag catataaata tatcccagtg gaactcacca aagaagacca caccctcagaa 1380
 attattgcat tttctcatta tgtgttgggt ttgatttgc tttgttttta atgcagctct 1440
 ttttaatatga agattcttga tacagtgaat tctcttattt caagtgttaag ttattcttca 1500
 cccacccctt cccctgccac tgtatttccc atctgtttca aggagtttca acaattttaca 1560
 ttgcatcgtt tgcagttagt actgcttttt cagaaagacc tggaaaacat acctgctatg 1620
 aatattttgt tcagatgtag ccattttacct ggtnttcaag gttgccttct gtggagagga 1680
 tcttagacaa aaattcttct tgtatttact tgggttaagt gaagtccaaa ttcttacagt 1740
 atgctattttc aggatttctg atattaaaaa agaaaaaaca aaatctttat atctcttatt 1800
 aacactttcc ccaagaaggg ttgtgctgtt atttattttc tattataaga aaagtctatt 1860
 cttaagttag tttcttttac ctctaactta atttctacc aaataacctga tcaatagaaa 1920
 tgatatattt aagcagcaaa gatttctaat ccattcattat gaaaagtgtc agcatactta 1980
 gtagtgaaca gataaagtca atttgaatat aattccactt tgtttttaga gactaaatta 2040
 agattcaatt aacattatcc tatgaattct gaatgtgata atgtgattca aacagtcaaa 2100
 ttttatttag ctcttagtaa cttaggtag actgctttaa agatcaagaa aattttctca 2160
 aaattagtta aacagcttgg tctttagcag actgctttaa agatcaagaa aattttctca 2220
 tctttttctt ctacttagaa acattgcaag aaaccttggc cagtcttcac cagacctgcc 2280
 atgattttat aagatttagg cctcagtgac atgctcctga aagtttctct ccagccatcc 2340
 aaactaagca tccactcatt ccattttccc aaagtcactc accgataaag gtatgcatct 2400
 taagtctatt tttgaaaggg ggaggaggat ctccccctgc ccaaaaggaat tttcttatca 2460
 gaataacctg aaaggggggt atataaaatt ggaaaactta atttcttggc tgtgtttgat 2520
 aacagtctct atgcatgggt ttttaattga ggtaaatttg tttctttctt cagaatacct 2580
 ctctccaccc cccaccttat tcttctctct taatgaatat ttttattgga gctcaaaactc 2640
 catgacttac gtgctcacta agttttctct tttccccctg tttactctgt ctgtatgtat 2700
 gtcaaaagct ggcaaaacct ctaaaactgt caagaaaatg cttgaaagt gatttgtcat 2760
 agtgcaaaat catgataaaa tgccttaatt ttatttggat atgtagtaca tagaaacaga 2820
 aaaaataaag catttttata acttaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2880
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2908

<210> 36
 <211> 953
 <212> DNA
 <213> Homo sapiens

<400> 36
 aattcggcac gagaaccaag gtactttcag ctgcagactg accatacccc tgtccacctg 60
 gcgtctgctgg atgagatcag cacctgccac cagctcctgc acccccaggt cctgcagctg 120
 cctgttaagc tttttgagac tgagcactcc cagctggacg tgatggagca gcttgagctg 180
 aagaagacac tgcrtggacag gatgggtccac ctgctgagtc gaggttatgt acttccctgtt 240
 gtcagttaca tccgaaagtg tctggagaag ctggacactg acattttcact cattcgctat 300
 tttgtcactg aggtgctgga cgtcatttgt cctccttata cctctgactt cgtgcaactt 360
 ttccctcccca tccctggagaa tgacagcatc gcaggtaacca tcaaaacgga aggcgagcat 420
 gacctgtga cggagtttat agctcactgc aaatcttaact tcatcatggt gaactaattt 480
 agagcatcct ccagagctga agcagaacac tccagaaccc gttgtggaaa aaccttttca 540
 agaagctgtt ttaagaggct cgggcagcgt cttgaaaatg ggcaccgctg ggaggagggtg 600
 gatgacttct ttacaaagga aaatggtagc agcttcagtg agaaactgcc cttacaaaca 660
 gtccctttctc tgcrtgtcaat ccaatactgc tcccaaatcc tgtttttagt gttcatttcc 720
 ctcaaggcag ggcctgggct cccacgacct cttaggacag atctggcctg cagccgcggg 780
 ccgctgggaa ctccactcgg ggaactcctt tccaaagctg acctcagttt tcttacaaga 840
 acccagttag ctgactgttt attgtaattg tcttaatttg ctaagaacaa ggtaataagt 900
 aaatttttaa aaagcctttc tgctgggttg gattaaaaaa aaaaaaaaaa aaa 953

<210> 37

<211> 3364
 <212> DNA
 <213> Homo sapiens

<400> 37

acccacgcgt	ccgtttctga	agcaatgtta	atcctactag	ccaagcatat	cacttagtcc	60
ccactgtgag	atgagggata	tgtgcttaaa	ttgtgaaaca	aatatatgag	tcaggtatct	120
ttccctttgag	tccaagtggg	ttatgacttt	ctttccctgtg	ttctttgtat	atgtgggagt	180
tttataaatt	tttatcaaga	atgaaaagggt	ggcctgtgtt	cttactgggtg	caggctgtca	240
catttctctc	tgttgcccag	tcaggtgcta	tggcatgtgc	tgcttctggc	gtagtgtact	300
ctgtggatgt	accagcatgt	tcttcaagggt	catgactgat	tttccagacc	tttgggaattg	360
agataaatgt	taaaatttga	gctatctctg	aattttcttcc	agatactttt	cttcatttgt	420
ttgtttgtag	ggtaaacata	cctgatagca	gcaattttaag	cataccctta	gaatgaccat	480
gtatggccag	tgcacctgaa	tgtgtgttcc	aaggtaggga	atccaggaat	ggccaactcg	540
gagattcatt	ccttactatg	ataaatatct	gagccccctg	ctcatcctgt	ggaacatggg	600
cttatttgggg	attaaggccc	tgagtttctag	gttaaatgaa	ggttaccaga	tggagggtcat	660
tagggggagg	gtgttaaatg	aaaatgtctt	ataaactgca	tgctgtttgc	aagcagttgc	720
agtcttctctg	cccagcccg	agccactggc	catgcagtca	tgtgtgccag	cctgcccga	780
ctggaccatt	tctgtacata	aggcagttct	cctgtccggc	tgccaccagt	tctccactct	840
ctccccatat	gtaagccctt	agtaaacccc	atgtctcatt	tgtgtcctct	gggtctttct	900
ttcagcctct	tgaacctagt	gccttccctg	ctgagggttaa	taggggtaca	gcacaacagt	960
gttgtaacac	agaaagtgat	atttacaggg	atatctctct	cacaatatct	cttaggaaag	1020
gtaaataaaa	tgttcacaac	ttgtagggtga	gtaattcctt	agataagttg	ttctttaact	1080
tgggaggagt	ttgggaagga	acctaaagcag	gctgcagagg	ctgggcatgg	gagcttgtca	1140
tggctgggaag	ttgaaatggg	caactccagg	cagatctctt	ggggcaaagc	agcctccacc	1200
accagtagcc	cttcccttct	gtctttcata	ccccactgct	ccatctgaag	cctgaacccc	1260
ttccagaaaa	ttgatggata	gattttcttt	ttcggctata	tatagtctta	gagggttagaa	1320
ctagatataa	ttcagcttag	aagatttctc	cttccccaga	aatgatgttt	tttgtgcaaa	1380
gccccgccaa	aatagtacgg	agacttagac	tgagtctact	catcactaac	aattaaacttt	1440
ataaacattc	aacaagtagg	acaactatta	ttactgttac	tcagaacccc	tgcctctgta	1500
tatacagttt	gattttaagat	gccacattta	catggcattt	tcaaccttca	aactctagca	1560
gattttaaaa	ctagggtggat	gaaaatagaa	tcattctaat	aaatgtagtg	tgtcagattt	1620
gaaaaatcat	ttggtgagca	ggatctctgt	aaagtatat	ggggccacgt	tacaagacgt	1680
aactgaagaa	aattaattca	acagagcctg	ccgtacttga	acgacataga	gattttactcg	1740
aactgaacta	actcaagctg	cagaactccg	agcaagcctg	gattgtaaaa	gtctgggtga	1800
aaatagatgg	agtatgcccc	gactgaacct	ctgtactgcc	ccacatgctt	atacagggtg	1860
gggatttggat	ggctgttagg	tgatcattgc	attctctttt	ggatccctat	tgagaagaaa	1920
tgataagaga	gggaaaggat	atggggcaag	aacagtctga	aaaagaaagg	ataaagtctt	1980
cagactctct	tcacactcta	agaagaacct	tctgaaaagc	ttggattagg	tctggcaattg	2040
gatataataa	gcaaaggact	cttgggaatgt	gttctttggc	cttagcccca	cctctgactt	2100
tgagcaaaatc	agctgatctt	tctgctgtga	aaataaatagt	ccctctgata	tttaacttta	2160
cctcatgagg	ttattttagag	gatagtgttg	gtaataatgc	cttgtgttta	catcattctt	2220
ttcacagaga	gctcaaagca	ctttacatgc	attgagagag	aagcttctcg	tgaagagtaa	2280
atagaagtgt	tcactttttg	gaaatgaact	tagggcataa	gagcctgaat	ttaatgcatt	2340
gcagggaagaa	atatggtaca	tagtgaacca	gtgggtcaac	tgaatttttt	gttccactaa	2400
gagtcctctc	ctggctcctt	gttttgtgaa	ttgaggaata	tggtagtcc	ctacaccttg	2460
atgggaaatc	ccacatatgc	aattggaatg	gtctctcacg	acacatgcag	agattgaaga	2520
acagtctgga	cattttttga	taacgttctt	tgggcttctg	tagtagctga	aagacacctg	2580
agaaatctta	gctcagagct	acagaatgac	actaatggat	cccagaaata	gaaatgtaga	2640
tgtggagtg	tttatctgtt	tattttcacc	caattcaacc	aatactcctt	gagtgccttt	2700
tataacatg	attttgagtg	atgtggagaa	ttaaaagagc	cccacatgct	caggaaagt	2760
aacctgtggt	ttagcaagga	aaagaagttag	gatcttccaaa	tagataagt	caccygggtat	2820
gtggaagtct	agaaaaagctt	cccagtatct	cagcccatct	acttggccat	tctcaaccat	2880
gtattactca	tgraccaagc	agtatgctgt	tcacagagag	atccaatctc	tgccttaggg	2940
atccttgggg	aaaacatgta	caaagagata	gttttagcac	attctagtaa	aggcagtgat	3000
caagggcacc	tagccttacg	tggcaattta	gggaaggtag	cttggaggat	gagacttctc	3060
ctaaagtctt	aagaattgaa	aagaacatgg	gaagggaatt	ccaggctggg	agagttagtat	3120
gttcatacgc	cctcagtggt	taaccttctt	tgaacaaaaa	aatggccaac	tacagaaagt	3180
ttggtcttat	tgtagcctaa	attgtrattca	ggggtacgag	tgagaaaacag	ggattaaagat	3240

aaaggacctg	ttttgctgtc	ttgtttactg	ttgaatagta	gtatgaagta	ggtcctgaaa	3300
aactatgttt	ttgggggaaaa	aaaaaaaaaag	actgaatgat	acgttgggtt	taagtcctcg	3360
caggcaggct	atccaggtaa	ataaacatgg	aaggtgatgg	gaggtaatct	gggctggaaa	3420
tacagatttg	gaagtcaccc	catatcagtg	gtgtttaaaa	tcaagagcaa	atgaaattgc	3480
acaaggagaa	tatatagaat	gaacaaatta	ccatgggtga	agccttgagt	aatacagaca	3540
tttaagaagc	aaacaaaaga	caagggaaccc	atgagggaga	ctggaaagga	aaaaacagag	3600
aaataagaaa	aaatgagagg	agagaattga	tacattttcc	tcaggtgtgg	cattatggag	3660
ttcactgggtg	tctcatcaga	gaagtttcag	tccagtggcc	agggcagaat	gacatttgtgt	3720
cttgttttaa	agtaaatggg	tagggtaaga	aagttgagaa	gggttagcac	aaacctctct	3780
ttcaagtcac	ttgccttaga	agagaaggaa	gggtatgggt	tctgggggtgc	aaccaggtt	3840
caagaagcaa	aaaaaaaaaa	aaaa				3864

<210> 38

<211> 1411

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1395)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1397)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1401)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1408)

<223> n equals a,t,g, or c

<400> 38

ccgggtccgga	attccccgggt	cgacccacgc	gtccggcggtg	aaccacccgtg	cctggccgga	60
agtcttttaa	aaataaagtg	attctactct	tctaagctta	cagagaccag	accagggtgaa	120
tgtaactggg	gaaaatcaag	atgggtacctc	tctgcattat	cccgccagac	actgtatttt	180
atgcattcat	gtctaggata	cagtgtgaaa	attaaaaagt	ttagagggca	gatgcaattg	240
tggcaagtga	cctgcccaata	aagcagggtgc	agctatagaa	gctggcatag	gtatatccctt	300
aatgggtgctt	tctccctggg	cttgtctttt	tgttgttttt	ttcccttata	ttcagagctc	360
cttgagaagt	gataaacacc	tccagctttc	taacatccctc	cccacaccat	ctcaccatat	420
ccatctccca	gcattccatct	gcattcagct	aaggggcgga	aactgacctt	gtgcctgtgt	480
tgcagaccat	ttctgagggtc	tccaccatcc	aaggaggcac	agccgtcatt	actgtccctcc	540
atgccttcag	cagccccctt	cacagctaaag	gtacatacca	ccccctctgc	cgcgcctcca	600
cccctggcac	caagggtcttc	tgctgcttat	gtctaaagggt	atcacctata	tttaactgcc	660
tcagtgcact	aacctctttc	ttctcatgtg	ccagatgtta	agatgaagga	ggaatacmac	720
acataactcaa	gcctcagcct	gttttagttgt	tttccactggg	gctcgctttt	ctgggacgggt	780
atattattatc	agactggcaa	gcctaactcc	ataggtttac	aggaagttagg	gatattttta	840
taaaacaatt	gtgtccctccc	cacattttgc	tatgttaata	tttgcctcta	acaattttgca	900
gctgtttcac	tttttccctca	tttgtctcta	agttgaaggc	tttgtttggag	gggacagagc	960
acaggaacag	ccttgacagt	ctgttaattat	tgtacagata	ttttaatagc	atataaataa	1020
gtatatccct	tttattttga	aacaaaaatg	atcagacact	gcctttttgtg	tgtttgtctgc	1080
ctgtggcatc	ctttttttaa	aagactgtta	catattaaaa	tagtgtacat	atataaatat	1140
tacctctttt	gctgtacagt	tgtgatagag	actgaagatt	ttattttttg	tgtgtctttt	1200

ataagaaaaa	aattaatata	ctaaagaatc	ttgctgatgt	gattgtaatg	tacctacgta	1260
acttatattac	ttttgaatgt	tcttctgtat	ctttaaaacct	tttattaaat	aagggttttaa	1320
aaattcaaaa	aaaaaaaaaa	aaaaaaaaag	ggsgggccsc	ytaraggatc	caasccttgcg	1380
tacgcgtgca	acganancag	ngtcgagngg	t			1411

<210> 39
 <211> 1182
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (496)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1162)
 <223> n equals a,t,g, or c

<400> 39	
ctaagctggg	tcgcctgcag
aagcaccat	gtctttgaat
tggtctttaa	ctgtacatag
tggtgtaaga	tctagcccca
gtggcactcc	acaatgtcaa
gtgcccctga	ccccttggca
ttctgtgctt	gtgtggcatg
tctttgggtt	tccagatttt
ttctccttat	ccttgmccag
ggtagatagt	ggtscagtgc
tttttcactt	agcctttctg
cctacctttt	ttgggtttat
ttccaagaat	gcataatttg
aggsccaggc	agaaggatcg
gagacctcgt	ctctacaaaa
atcatgaggg	caggagattg
aaatacaaaa	aattagctgg
ctgaggcagg	ggaatcgctt
cactgcactc	cagcctggcg
gccgctctag	aggatccaag
	cntacgtacg
	cgtgcatgcg
	ac
	60
	120
	180
	240
	300
	360
	420
	480
	540
	600
	660
	720
	780
	840
	900
	960
	1020
	1080
	1140
	1182

<210> 40
 <211> 2457
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1622)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1713)
 <223> n equals a,t,g, or c

1005498 "0450"

<400> 40

gtcgacccac	gcgctccgccc	acgcgtccga	ttataataaaa	aagtrattatt	aggacaggta	60
aactcatcca	tctactgtga	gctgctggct	tggagaacga	cttttgagga	gccagtttcc	120
tgaggagaaa	tgcttttata	aagcactcac	tgctttgtta	aaggagacaa	aactgatccct	180
aaatgaccac	tccagggttg	ctgattttgt	ttctggctca	tgtctgccta	gtaaaaccacc	240
agcaagctgc	tgaaccaggc	tggaaaacaac	attgttgcaa	ctgggaggga	catagagtac	300
tgtgaaagca	gcgttccaac	acatcttcac	ttttacaaaag	ggataggcag	agacttccaa	360
catagagggt	cttaaaacttc	gaggggttac	aatccccctcg	caaataatttt	tatagctatg	420
gacccctccc	tcagatctac	agccaacatt	ttcagrtgcac	cttaggagggt	catttttagtc	480
cacgcctctg	aaaaagctgc	actccaacgg	ctgaagagca	agccatacgg	ccgagaatgg	540
ggctcccttt	gccttccatga	aagctacttc	ccccaaacact	aagactcagc	tgtacgtttg	600
cttagctcag	tcacatttac	attctttctgg	gtgaactgta	ctttttgagt	acctgccttc	660
attttctaga	atcagacctta	acaaggctcag	tagaagcctg	ggcagcagcg	ggcctggaaa	720
gacgaggcag	ccagcatgaa	ctgctgttct	ctccctgacc	acaaggcgtc	gtcttccctcc	780
aggggtcaagt	aattgttctt	gttccgcctc	acagggaattg	ggggagggaag	gacgttaaca	840
ctataaaaatg	ctgcgtccta	ccttaaaactt	gtactgtgag	aaagctggaa	acttccacct	900
gtacagtggtg	tctgggttgc	atgttttagtt	tcatttctgtg	gaactgcttg	tccaagagtg	960
agctcagggtc	agggcagttt	gtgectatga	gaattagctc	agctatcagg	caggtttttta	1020
gacacctttt	taaaatgtgc	tcgtgtttgg	tctgttttgc	ttactgtcag	tcctgggtca	1080
atcaaagggtt	tgttaaggggtg	agaatttttta	tgcactgcta	tatcgcaagt	gcttaaaaaca	1140
gagactggcc	cagatgaggc	attctttcaaa	tgttctgtga	aatgaatgga	caaactcttg	1200
ggataaaatcc	taatttgttg	gcaactgtta	tttgacttta	gaaggcaaac	tgaattttatt	1260
tcagagagggtg	gaaggggagg	ggagggtcat	tagcctcttg	gtagaaagag	gactatttct	1320
gcaaataaat	aggtttccac	cttaagtagt	gacagtctct	aacttcttat	tatggagtga	1380
gtcttgaccg	ctttccaagt	tcaatagaag	ttcaagattg	cctctcagtg	attagggaaa	1440
ttgaagcttt	taaagctcct	ggtctcagta	attcctcaga	ataaacctct	ttaaaaggga	1500
tattgatgga	aatgtacaat	taccagtaat	tgagggttta	tctgagggga	tggagatgat	1560
gaaatgggttc	cttcttggaa	gttgttggca	ttttggcttc	atttttcaca	aataaagtga	1620
anccattttta	aacgattcgac	aacgattata	tagtgccatg	tggaaatacaa	tagatattaa	1680
tttgtgtgtg	gtttttctgc	ctgctttaaa	tgnaatgtat	tatgtttctg	ggttcccttt	1740
ttagctgtaa	aaatactctg	tcactaaagc	atgaaaattta	atcagcagtt	gttcttcaag	1800
ttcctgaaaag	ctatarragt	ttctcatgac	ttgagtgttt	ttttccctgc	ccaccagagg	1860
agaaagccct	tgtagaattc	tgcagtgtta	caagtgttcc	ctacaaaaaac	tgaaccatc	1920
agctcctctt	taacaagttg	gctttttaaa	agcacgtaat	tacaatttaa	tggatattctg	1980
taaagtgggtg	ctctaggcat	aattttaaatt	cttttttaattg	actatatttc	ttcaaaactt	2040
tgaagaaaaa	atgtgttctt	tttgctgcat	cctttgttaag	aagactgcca	acagaggaaa	2100
aaggacttta	caaaattaaga	ccatcttgggt	ttcatttcca	caaagatgag	aacaaatcat	2160
ggtgttagga	aaggatcttt	agaagaacac	aagaatttga	aagcccttgg	tggttatcac	2220
tactatattt	catatttcca	cagaagtgcac	ttagccaagc	tctgcatttt	gagcctgctg	2280
actttcattt	aaaaggaatg	aaaggctgaa	aatccaggct	gctgtgtctg	tagataaagg	2340
tcaaaaccatg	tttgagtctt	tcactgttgt	gtccacctaa	ataaaactga	gtaagtaatg	2400
aaaaaaaaaa	aaaaaaaaact	cgagggtcgac	ggtatcgata	agcttgatc	cgaaatt	2457

<210> 41

<211> 1847

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1279)

<223> n equals a,t,g, or c

<400> 41

gactccttag	ctaagcatac	aaggtaactg	gccctgcctt	gctgttttgc	ctcacctgct	60
aacgtgcaca	tgctctgcc	ctgttacctg	ctgctagtgg	gacatgctga	mttctcagtg	120
ggcctcatgg	gccagaggaa	gttgcgttgt	ttcataaaact	cagctctcag	aagtgtgttt	180
tcctctgctt	ggaattcgtc	tatctgcttc	aatagctgaa	tgtctgttat	ccctcaagac	240

tcaattcttg	tggcacctca	gttctgaccc	ttccccagtc	tctctttccc	ttctccccac	300
aggctgtctc	cccttgatat	tttgccctgct	tgcctacccat	gtccctttct	cctgggtgaca	360
gtgctacagc	ctttcccttg	ggaatcaacc	ttgtctgaga	gtggacagaa	attatccacc	420
cctccatcca	gggatgaacc	aatgacctgg	ccaatcacag	tgcctgtgat	tggctcctggg	480
acaggcagga	gactcaagct	aggccacaga	gcatacagtc	tgagactgaa	actactggga	540
aaacaatatg	ctctttctgc	ctgaggcgcc	tagtggatac	aatggaagcc	ttgaggcagc	600
tgatcatctt	tgccttgaga	gaggtggctg	cctaagaagg	aagccaattg	agaaaaagca	660
ggcagagaaa	aaaaacagga	acagatacaa	caggcaagac	tcagctgatt	tctcatgtca	720
gcaaatacaa	gagaaggaga	ctgggtcaaga	tagagatgtc	tgatgatact	gagctcccga	780
ctccagccac	tcctgaagtc	attcctaagc	ctctcgttac	acaagccaat	acatgatctt	840
gktagattaa	aaatagtttg	actttgggtg	tgccacttgc	cgtagaaagc	atycacgatg	900
atacactcty	ccgtgtgcty	ccacacccta	atttaaccty	ctycatagca	ctgactcggg	960
ggccctatga	gactgkgaac	tctytgaggg	caggaaatgt	atcttattcg	tctccaaggc	1020
cacgtagactt	ggtgtatgat	agatatccaa	tacaggtttg	tgaaataaaa	aatgaaggaa	1080
tgtttatcta	gaaattaatg	aagcttttca	tttacttttt	tacttcaggg	cctttctgcc	1140
aagaactctt	aagatgcctt	aggatctctg	ttgcagccag	gtggctgtcc	ttcccagagc	1200
ccttgttgtc	agtcctctga	agtcattggw	cctggagata	acagggaggg	caggtcccga	1260
ctgctgagaa	agtcagggnc	cccggtacct	accattacca	tgctacctgt	tcacttgggc	1320
ttcaccocaag	gccacactca	tctccgtacc	ccttcccaac	agtgggtgag	ggcaggagca	1380
cctggacatc	aagaatcgag	tgcattgcctg	aacctgtcca	ttacctatgc	ttctgcagct	1440
ttgtctcatgc	tttccctctc	ctgaaaagct	cttcccttgt	ctacttaatt	attcaaagca	1500
cacaggaaaa	aaaatcacct	gttcccaaac	gtcttccccc	aacctgtcag	ggaaccacaa	1560
tcaaaaagcca	tcagaaggcc	gaggcgggcg	gatcacttga	ggttaggagt	tcgagatcgg	1620
cctggccaac	atggtgaaac	cctgtctcta	ctaaaaatac	aaaaattagc	caggcatggg	1680
ggcagggtgcc	tgtaatccca	gcaactctgg	agggtgacga	ggagaactgt	ttgaaccacg	1740
gaggcagagg	ttgcagtga	ctcagatttg	accactgcac	tctagcctgg	gaaacagagc	1800
aagactaggt	taaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	attcgag		1847

<210> 42
 <211> 2597
 <212> DNA
 <213> Homo sapiens

<400> 42						
ggcacgaggt	tacacctcac	cccctacttt	cgctgactcc	agaccccaga	ggctgagggg	60
cagttagatat	gctgcctgcc	attgcctctt	tcttctgtga	tgcttgagtg	gtgccagcct	120
gatcagatttc	tgttgcagtt	cccctgtgct	gccacaatgt	cggctcgcgt	tcttatccaa	180
cgctgtttct	gtttctgttg	gtttgtgcta	aatgcatttt	caatcccaag	tggtacagag	240
aagaaaagga	ttgtctttta	aaagtggctt	tgaatgtgtc	gaaagcaagg	ttgcctgtctg	300
tgtgtttttg	acaattgcct	ccccagagga	gcctttgaaa	acctcacttt	tcaagacgct	360
tcaactccca	tcagaaaagt	acttaaatca	aatgtctctt	ctgaccatcg	cggctctgga	420
tgccaggcta	gtgattatct	gtctaattctg	agtctccagg	gctagaacct	cacaccgtgt	480
ctttttcacta	ccctcccaga	ggagggtgaga	ggagggtgaat	agacacttgt	cagattctttc	540
tgccctgggtg	cactgtgggg	ggatgcacac	acactggagt	ataggcttgc	taaagagaga	600
ctgcattgct	atttcaacta	gacacgttta	cttttcccgc	aaatgattac	tgagcaccta	660
tggtgtgccc	ggtaccatgt	tagggcaaga	gatctacctc	atccttgcac	tgtaaacctg	720
tagcatccgt	ggcaatgttt	tacaccactg	ccctcccagg	gttccctgcaa	gctgactcct	780
tttatttttcc	ttgtgcatgc	tgatgtgttc	aaggatattc	agtgggctac	tgtgagacta	840
tctccccatc	aggatctctc	aaccttggca	ctagggaacat	gttgggaaaa	gtaggtctct	900
gttaagggag	gaagaggggc	tttccctgtg	gtgataggat	gcttggcagc	atccctgtcc	960
agtagcacca	catctacctc	agttgtgaca	acaaaaaatg	tctgcagaca	ttgtcaaatg	1020
tctcctccct	attttacatt	taccaaaagt	ctctttatgt	cctttacagt	taaggaaact	1080
taggaccagg	aagaaacttg	ctcaagtcaa	acagtgaatt	ggcggtagag	ctttagctac	1140
aatctcaagtc	ttgtcttccc	aacctcagtg	ccatcttatg	gatccattca	gtggtttgct	1200
cctaaatgct	taataaccaa	ttratctggga	taaacgaaag	ccaaacaaac	ttgctggggag	1260
cgtgggacaa	tttccatggg	gtaaataact	ccaccatggc	tggtttcaag	ctacttccat	1320
ggcgtcactg	aatgtgaagt	tgggaaggga	tctgtacagt	tggatctggg	gagctgggtg	1380
cagccagctc	agaatgcccc	caagtcctatg	tgtgctgctg	atcacatatt	agtcttgctc	1440

tcctctggac	cttgttctgc	cacccccccag	acacatgccc	ttatcactgt	gatgtgctgt	1500
ggggaaaagca	gtcacctggg	aagagttttt	gataacttct	ctggataaac	ataaagcagt	1560
tagagtggag	ttatccccct	cttctgttaa	atgaaagtct	cttttcacag	tctttccatt	1620
gaaggaatta	gaaaagtcat	gggatacctc	tggctcttaga	gcagaaatga	agttccccag	1680
aaggggggtcc	tggacagaat	ggctctcttg	gcagggacta	gatgctgtta	cttaccatca	1740
gatgtgtcta	ctgtaagatg	cttggggaggc	atcaaagtgg	tgacagtggg	gggctgttgg	1800
atttttaccat	tctggaatat	aagagaaggg	gtgtggctgg	tgttttagtc	cagatagcag	1860
ctgtgaccac	tgggagcctc	attttccaca	cctgcaaaaag	gagaaatagt	gatccccctc	1920
ctagtgttgg	tgtaaaagat	agatgaacct	ctgcctgagt	ctcagatgcc	tgttgcctac	1980
ttgggttgctt	agtggatcgg	ctggctgtca	acagtgttaag	cttatcaagc	ctaaatactt	2040
agtctggctct	gactttctca	cctcgaccat	gactcagtgt	catgtgctcc	tagtcattct	2100
gtctgtgggtc	caacgttagc	ctgggaagca	cctgggactg	aggggaagaac	cctcagctag	2160
ttatttcagcg	atccagggtc	tcctcctgcc	tttgatatca	cctcattata	taaccttggg	2220
aaacacttttg	gtgtgactgg	aatgtgggata	ctcccagggg	aagggtagga	gcatggtagg	2280
gcattttggac	tttatctatga	aggtggtagg	aaatacttga	agggttttta	gcagggatga	2340
cacatcatca	aatgtgtgtt	ttgaaaactt	tttctctgag	aggacagggc	cacagcccaa	2400
gcaggatcaa	accagtttagg	agattgatgt	aacagctccc	tcagaaagtg	atgaggtagc	2460
tgggtgctgg	ggctcatgcc	tgtaatccca	gtcaccgtgg	gaggctgaga	ctggcagata	2520
gttttgagacc	agcccttggc	aacatgggtga	aaccccttct	ctacagaaaa	aaaaaaaaaa	2580
aaaaaaaaaa	aaaaaaa					2597

<210> 43
 <211> 3116
 <212> DNA
 <213> Homo sapiens

<400> 43						
gggtgataatg	aaagtgggtgg	tgggtgatggg	ggtaataactg	gtgggtgggtga	catctgggtggg	60
gggtgggtgatg	gtgggtgatac	tgggtgatggg	gggtgatgggtg	gtgggcgtggg	tgacctctgac	120
atgggggtcca	gtagcagtgga	cagtgggatgc	aggctccttgg	tgactgagga	gcattctcagg	180
ctgrgggaggc	acctctgatac	cccgccactg	ctcctttaccc	cctacagtct	ctcagcaaac	240
ctgctggggcg	acagcgggact	cagatgcctt	ctgggaatgtc	tgcgcgagtg	cccatctccg	300
gttttgcttga	tctgagtcac	aacagcattt	ctcaggaaaag	tgcctctgtac	ctgctgggaga	360
cactgcccctc	ctgcccacgt	gtccggggagg	cctcagtgaa	cctgggctct	gagcagagct	420
tccggattcca	cttctccaga	gaggaccagg	ctgggaagac	actcaggcta	agtgagtgca	480
gcttccgggcc	agagcacgtg	tccaggctgg	ccaccggctt	gagcaagtcc	ctgcagctga	540
cggagctcac	gctgacccag	tgttgccttg	gccagaagca	gctggccatc	ctcctgagct	600
tgggtgggggtg	accctcaggc	ctgttccagcc	tcagggtgca	ggagccgttg	gcggacagag	660
ccaggggttct	ctccctgtta	gaagtctgcg	ccaggccctc	aggcagtgct	actgaaatca	720
gcattctccga	gacccagcag	cagctctgtg	tccagctgga	atttccctgc	caggaagaga	780
atccagaagc	tgtggcactc	aggttggctc	actgtgacct	tggagccac	cacagccttc	840
ctgyccgggca	gctgatggag	acatgtgcca	ggctgcraga	gctcagcttg	tctcaggtta	900
acctctgtga	ggacgatgat	gccagttccc	tgtgtgtgca	gagcctcctg	ctgtccctct	960
ctgagctgaa	gacatttctg	ctgacctcca	gctgtgtgag	caccgagggc	ctgcgccacc	1020
tggcatcttg	tctggggccac	tgccaccact	tggaggagct	ggacttgrct	aacaatcaat	1080
ttgatgagga	gggcaccaag	gcgctgatga	gggcccctga	ggggaaaatgg	atgctaaaga	1140
ggctggacct	cagtcacctt	ctgctgaaca	gctccacctt	ggccttgctc	actcacagac	1200
taagccagat	gacctgcctg	cagagcctca	gactgaacag	gaacagtatc	gggtgatgtcg	1260
gttctgtgcca	cctttctgag	gctctcaggg	ctgccaccag	cctagaggag	ctggacttga	1320
gccacaacca	gattggagac	gctgtgtgtcc	agcacttagc	taccatcctg	cctgggctgc	1380
cagagctcag	gaagatagac	ctctcaggga	atagcatcag	ctcagccggg	ggagtgcagt	1440
tggcagagtc	tctcgttctt	tgcaggcgcc	tggaggagtt	gatgcttggc	tgcaatgcc	1500
tgggggagacc	cacagccctg	gggctggctc	aggagctgcc	ccagcacctg	agggctcctac	1560
acctaccatt	cagccattctg	ggcccagggt	gggcccctgag	cctggccagg	ccctggatgg	1620
atccccccat	ttggaagaga	tcagcttggc	ggaaaacaac	ctggctggag	gggtcctgcg	1680
tttctgtatg	gagctcccg	tgtcagaca	gatagacctg	gtttcctgta	agattgacaa	1740
ccagactgcc	aagctcctca	cctccagctt	cacgagctgc	cctgcccctg	aagtaatctt	1800
gctgtcctgg	aattctcctg	gggatgaggc	agctgccgag	ctggcccagg	tgttgcctga	1860

gatgggcccgg	ctgaagagag	tggacctgga	gaagaatcag	atcacagctt	tggggggcctg	1920
gctcctgggt	gaaggactgg	cccaggggtc	tagcatccaa	gtcatccgcc	tctggaataa	1980
ccccattccc	tgcgacatgg	cccagcacct	gaagagccag	gagcccaggc	tggacttttg	2040
cttctttgac	aaccagcccc	aggccccctg	gggtacttga	tggccccctc	aagacctttg	2100
gaatccagcc	aagtgatgca	cccaaattgat	ccaccttttcg	cccactggga	taattgactc	2160
aggaaagaag	agcctcggca	gggcgctctg	cactccaccc	aggaggaagg	atacgtgtgt	2220
cctgctgcag	tcctcaggga	gaactttttt	gggaaccagg	agctgggtct	ggacaaagga	2280
gtaccctgca	ttacgtggga	tatgtgtgat	caattgggga	catgcgacac	acaatgaggg	2340
tgtcatgaca	atgcatgaca	cgtacggtta	tatgtggcag	tgtgacccct	tgacatgtgg	2400
cgttacatga	aagtcagtgt	ggcacgtgtt	ctgtggcatg	gggtgctggca	tcccaagtag	2460
caggatacat	gattgttggg	ctatatatga	cacatgacaa	atgtccatgt	cacaggactc	2520
atggctggcc	agatgacctc	aggctggccc	aagatctaatt	ttattaattt	ttaaagcaaa	2580
tacataattca	tagattgtgt	gtatggagca	gctaagttag	gaaaagtctt	ccgccccgagc	2640
tgggagggga	gagtgtccat	gcactgacca	gtccaggggc	tcaagggcca	gggctctgga	2700
acaagccagg	gactcagcca	ttaagtcccc	tctgtcccca	atcctcagcc	tacccatcta	2760
taaaactgat	gactcctccc	ttactttacat	actagcttcc	aaggacaggt	ggaggtaggg	2820
ccagcctggc	gggagtggag	aagcccagtc	tgtcctatgt	aagggacaaa	gccaggtcta	2880
atgggtactgg	gtagggggca	ctgccaaagac	aataagctag	gctactgggt	ccagctacta	2940
ctttgggtggg	attcaggtga	gtctccatgc	acttcacatg	ttaccagtg	ttcttgttac	3000
ttccaaggag	aaccaagaat	ggctctgtca	cactcgaagc	caggcttgat	caataaacac	3060
aatggtattc	caaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	ctcgag	3116

<210> 44

<211> 3460

<212> DNA

<213> Homo sapiens

<400> 44

acgcgtccga	tgaacttgac	cggtctaaatg	ccccactttc	tcagatgggt	tctaacgact	60
ttcaggatca	gggccagctg	tgggtctact	ccttgttggga	gcccattctca	cctgggagtg	120
ctgcagccag	ccctccctcg	tgatttgtct	caccttgagt	aggagacatg	cttctccctc	180
aaccttttcc	ttcttgccat	aattaacata	tgtccttttc	agtaagtcca	tgcctctggc	240
aggggatgaa	gaagtactca	ctggtaacta	gctaccatct	ttgcagcagc	cctggtaact	300
tgaaaaaatt	gggtctgggtg	ctgttcatga	gtctttgtgt	aactgcaaaa	gcaggaaagg	360
aagtcaagac	tcctgttggc	tcgtgcttag	caaagcagtc	cttatccttt	atactctgtt	420
cttgggtttt	gtttttgtct	tgttttatat	caggcaaat	gcttagtagc	aaagggacca	480
aactgaaaag	gtgacaatct	ctaacttcta	aaagcagaca	ccaatcggat	gctcattaga	540
ggtaaatgaa	gatgccattc	ttgggtggcct	ctgcacccaa	attgcatctg	gaaagaacta	600
gggtctcatc	cagaatgtcc	aaaaggaaat	tcttaagagc	ttaaattcag	atttgtgtct	660
cattaatgca	gtgaacaatt	caaaaccaca	cagattcctc	ggcaggaagg	ataatggaa	720
aacagtgttg	atgagacctt	tttagcttca	aggtttcgga	gtctaaacaa	atggatgatt	780
cattttggat	gaaactcaca	atgcaagtag	aaggacgtct	ccaaaacagg	ccagtgggt	840
tatcctgggt	tggaaatctgg	tgtgaaacca	taggtcttaa	cactctggag	cagcacattg	900
ctgtggatat	gtccaggaga	ccttagatat	ggcttaagg	ctttcaagat	gaggacagaa	960
attgcttaca	attgctcagt	ttctcaacag	aaagactcat	aagagtgcc	gcatggggta	1020
catggagtga	agctgggtgg	gaagcatcat	ctgcacagtc	cctgtcctag	tgcaggactt	1080
ttctctgrat	gttttccatac	catgggattt	ttggatatca	gtgtattttg	gttcttgaaa	1140
tagcctaata	gctgctcaca	cattgggtga	gaatatata	ccaatgtcat	ccccaaagg	1200
aggggtgagct	gaattggaaat	taagccagtc	cattttactt	gactcattag	ctctgttatt	1260
agtgcattgat	caccagatc	accctcctca	gcccacacag	tgtgaaacca	tcttccctcc	1320
tgttctccat	ggctattaat	agtatagcta	aatttagagt	gcagagccag	atataagtat	1380
tttggaaat	tctcccagtc	tgtggtagaa	gctgactgga	atacaggttg	agtatctctt	1440
atccaaaatg	ctagggacca	gaaagggttt	agactttttc	agattttgga	atacttaaca	1500
gttgagcacc	ccaaatctga	aaggcttctg	aacgtcatgt	cagcactcaa	aaaagtggat	1560
tttggagcac	ttcaaaatttc	ggactttttg	atttgggatg	ctcatcctgt	gtaggagagg	1620
ctactcgatt	ccatttaaatg	actgtcctag	tcataatcat	ccaaagataa	aagccaggta	1680
gatgttgaaa	gctctttcca	gggtgaaaa	agtgttctta	cgttctctgc	atgtgactag	1740
catcactgtg	gaaattaatg	ctctgtcctt	cactagaatg	tagtaagtgg	ttaaactgag	1800

ctatccccca	cctgatgact	attggcatcc	atttgcaagg	ccaatggcct	ggattaaggg	1860
tcaggattat	ttgtagctag	aaggtaattt	tatttctgtg	aaactaattg	gctcatattt	1920
gagggttaggt	gtggccttga	ccttaccagt	acattttatc	ccactaccag	ttgactagcc	1980
cagataaattg	ttaaatgggtg	cttcttttct	gcttctcagt	agacttccat	gccattacaa	2040
aggaaaatttg	aattacctag	tgtctgtata	ttccatgata	actatgtata	acttctgtta	2100
cacagcttat	gtattgttaa	catttaagtg	taaacctatg	cacagctaac	acttaaaaaat	2160
gaaaactaat	tagttcttgc	ttagggaaaa	tgccaggtat	gaagtatggc	atatacttga	2220
cactgtcctg	tgtaaccctt	tactttgtct	aggctttcaa	gattgagctt	ttttttcccc	2280
aaattaggtt	aacatgcatt	tgaccccaac	ctgtgggggt	tgagtaagct	ggaaaatctgt	2340
gacggtaggc	tttctagtgt	cacgaggtgg	tggtgactga	aggaaaaagct	gggatcacag	2400
gttcccttctg	atggagagga	aggttttattt	ctatgcccc	cccaccaccc	tccacctaga	2460
gctcacccaa	gcctgctcca	gtcccagggg	caggccattc	tgcaaaaagca	ggacctcaca	2520
gaaacaagg	ctgggttgag	gtcaccctct	tcagagttgg	ttcctggcca	gatgggttaag	2580
aggcatctgt	aatttttaaaa	atgtgaaact	tgggttttgg	gtcttcttct	aagtgcctaa	2640
ataagcaagc	caggctgttg	atattttagc	cagagaaaatc	ggcaagccaa	gatttaacctg	2700
aatctgaagt	ttagaatctt	gagtttgcac	ctgcatacata	tcattgtgtt	ttgatgagga	2760
aacatttggc	actgaggagt	tggaggggagg	gcaagacgac	agtgttaagt	cagatcatct	2820
aatgggttcc	cctaagccct	ggaaaaatac	ttgaaaagaat	ggcagcaaaa	aggttaagaa	2880
agcaagccag	atttactgca	caatatgcag	tacccagtac	tactttaaat	cccaagagaa	2940
cagtgtgatg	tctaataatat	acaggtctat	gaaaatactg	tggaataagc	ccaggaaggt	3000
tagatgtgtt	tgcaataaag	ttgcccctaa	ggtccccctc	taagtataaac	aaatatttcag	3060
accacaggtt	tcaatgtaaa	ctgtcaaaaa	gtgggatgtg	gaggattttt	gttaagtgtc	3120
aatcgaagtt	aaaaagcaag	ggttttttgg	caggcgttgt	gctcacgcct	gtaatcccag	3180
cactttggga	ggccgaggcc	ggcaaatcac	ctaaggtcag	gagttcgaga	ccagcctggc	3240
caacatgggt	aaaccccgct	tctactaaaa	atacaaaaaa	attagcccg	tgtgggtggca	3300
agtgcctgta	gtcccagcta	cttggggagg	tgaggcagga	gaactgcttg	aaccggggag	3360
gtagaggttg	cagttagcca	cgatcatgcc	actgcactcc	agcctgggca	acagagcaag	3420
actccatctc	aaaaaaaaaa	aaaaaaagg	cggccgctct			3460

<210> 45

<211> 2622

<212> DNA

<213> Homo sapiens

<400> 45

aggttccctc	ctttggatat	ttggcagttg	tactttatgc	agttcagcca	agaactaaac	60
acaggccctc	agggtgtggc	agagttacagt	gggccagagg	tcctttcttt	tcttcatgtg	120
gtcatacacc	tctgttaatt	caacttaagt	ttatattact	tttgggggtg	ggagtgggga	180
agaggatcac	attgttgact	tgctggaagc	attatgtcaa	ctaaaaatct	tcagtcttta	240
ttttcatcat	gctgttgggt	tccccctatg	ttgtttcttt	ttaaaaacac	caaatgcaga	300
acttcccttt	tatactgctt	ctatttcatc	ttgttgactt	gtagcctatc	agagtatgat	360
tctttattgt	catctaaggt	attctgatat	aatcactgca	tgtctaaaat	ctagtatttg	420
actaaatgct	acttgagacc	attctcttgg	ttgtcacatt	attttacagt	tgaagaaaact	480
gaaccttaga	gagggttaagt	accttgttaa	aggccacctg	gctggaacat	aacatcctgg	540
tcatttttaac	tactaatgct	gtcatgaaa	ggagttagcc	agggcaggtg	tgaatagagc	600
attctagcat	aagcagccaa	caattagagc	aactgtgtat	ttttagtgtg	tggatagcaa	660
atcttttgctg	tcttggaaagt	tactatctta	gaagcatggg	attaagctct	ctattccaatg	720
tgggtgttcac	atcagtagca	ttgggtttcat	ttgggagctt	tttagaaaatg	cagagctcag	780
gccccactcc	aggcctaagg	attcaatctg	cattttcaaga	agtgaacctat	atacacatta	840
aagggtttaag	aagcattgct	gtagtatcct	attttccaca	cttttagtcat	ttgcataatca	900
cttgtgcaac	tttggcttta	tctgcatact	tcttgaagg	ggcctgcccc	tccacacctg	960
tgggtatttt	tcgtcagggtg	gagatgaaa	aatgagaaaa	gaaataagac	acaaaagtata	1020
gagaaagaac	agtggggcca	ggggacccgg	acactcagca	tgcgaggacc	tgcaccagtg	1080
ccgggtctctg	agttcccttca	gtatctattg	atcattattt	ttactgtctt	ggcgaggcga	1140
gtgtagcag	gcaacagggtg	gcgagaagg	cagcaggga	acgtgagcaa	aggaatctgt	1200
atcatgaata	agttcaagga	aagggtactgt	gcctggatgt	gcacataggg	tagattttatg	1260
tttctacttta	cacaaatatt	taactagcag	agagcaacaa	agcagtattg	ctgccagcat	1320
atctcgccctc	cagccacagg	gcgggttttct	cctatctcag	aatagaacga	atgggaatgg	1380

tcgactttac	actaagacat	tccattccca	gggacgagca	ggagacagaa	gccttcatct	1440
tatctcaact	gcaaagaggg	ctccctcttt	cactactcct	cctcagcaca	gaccttttac	1500
atgtgtcggg	ctgggggatg	taagggtcttt	cctttccac	gaggccatat	ctcaggctgt	1560
ctcagttggg	ggaaacctgg	acaataccca	ggctttctctg	ggcaggggtc	cctgcggcct	1620
tccgcagtg	attgtgtctc	tgggttaatcg	agaatggaga	atggcgatgg	cttttaccac	1680
gcatactgcc	tgcaaacata	ttgttaccac	ggcacatcct	gcacagccct	aaatccatta	1740
aaccttgatt	caatatagca	catgtttctg	ggggcacaga	gttggggcta	aatttacaga	1800
ttaacagcat	ctcaaagcag	aacaattttt	cttagtacag	atcaaaatgg	agtttcttat	1860
gtcttccctt	tctacgtaga	cacaggaaca	atctgatctc	ttttcccccac	acttccctata	1920
tgttaatgta	ttttaattgt	ctgttagctt	tcattgtctt	ccaacttgaa	ataaatttcac	1980
ttacaaaata	gctggaaaaa	tagtaaaagat	aattcctgta	ttttcttcac	ccacgtattc	2040
ccaaatgtgt	aacacctaca	atcagcaaaa	atcagcacat	taataattat	acctaattcta	2100
cagacctcat	tcacattttg	ccagttgttt	tgtgtgtgtg	ctgtatgtag	tgagggtcc	2160
agtctaggcc	cgtatgttgc	attttgtctg	catgtctctt	tagtctcctt	tcattctcagt	2220
ggtcttttct	tttccatgac	tatgacagaa	atgatttcta	tccttcatac	atctgcagtc	2280
acatgaagtc	tatttgtccc	actactggtg	acgtaaaatt	tggttaacttg	gttgagggtg	2340
gtaccgtcta	ggtttctcca	tattaagtbtg	ctatttttcc	ttgtgtattt	aataagttatc	2400
ttatagggaa	atccctttgag	actatgtaaa	tatcatatta	catgtattct	gcctatctta	2460
gcattctttt	aagataaattg	cctgaaacat	tttttactgt	gatgatcttc	taattctatc	2520
attctgcatt	tattagtttg	gaattcgatt	gtaagggaagt	atattccctt	gtttccctatt	2580
actttattaa	agaaatttac	atccaaaaaa	aaaaaaaaaa	aa		2622

<210> 46

<211> 1984

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (106)

<223> n equals a, t, g, or c

<400> 46

agttgtgtgt	atgaatgatt	ttaagccttt	ttttttaagc	ttggcaaaca	tcccagctaa	60
tcaaaatcagt	catattccctg	agaagtagga	aactaaaact	tctttncata	taattgttag	120
aagggtttgtt	tcccaaaacta	ccatagttac	aaagggtgat	agccaaattt	taggaacaga	180
atcaaaaagaa	taaaaatctg	tgaagagatc	ctactactct	tccttctatg	ttttggtttt	240
ggtttctcatt	gtcccctatca	tttcagcaag	tggaaacagca	gcaagttttt	cagtgcatac	300
gcttcacaag	aacaaaaatat	aaatctgtat	ggcaccaaaa	atcaaagtga	aaaccaaacc	360
aaaaacccaa	acacccctatg	taactatcgg	aggcatatac	gtggtataaa	tgactgttagc	420
tgtgatacac	acatggctac	ttgtcacatc	actttccata	attattttact	gcaaaatgat	480
tgagagggtt	ttgggtgcagg	cagccgttaa	cctcctgtct	cctttgtttac	ctctggatta	540
cctttgcagta	aattgcaggt	ccttttaagag	attttaagctt	cagtttttctc	aaaccaaacc	600
aatttatcctg	tcttatctga	agatgcaggg	ttgtgggcaa	aagaggctgg	ttataataat	660
gcccctcatat	tgagtggctt	gtaaaagggt	gcacacttca	ggcactgtag	ttgttgaaga	720
tgctttgtta	aatgtgacct	tgactggctt	tacagggggtg	tagaatgtaa	tctacacaag	780
gtgactttgc	atctatcttg	ctcttgagggt	ggatgaaatt	gagaagctgg	agtgtgttaag	840
ccatgcacat	aagtattctt	cactgtaaat	tttgttttca	tttttaaccc	aattatggta	900
cttttatccaa	tgcacaactg	atctctcagt	agatattcat	ttgaaaatag	tgtggccttg	960
atcagtgaga	aagggaagga	gaaaagtgc	ttttttgtct	atgtagaaat	gactcatctg	1020
ctgagagttt	gtctttctgc	agcactcttg	gtataatgtt	agtgatcgggt	ctccttttttg	1080
attggggaaa	gttaattgtt	ttgaccttg	agttaattca	gttgagttat	cttatacttt	1140
taggaagtat	cagaattgct	ctgatgaata	acaaagtcta	ctgttttgat	gtccaatctc	1200
aggttttcaga	atatagtggt	gtaaaagctcc	actattttta	attcttaaaa	caactttaat	1260
ttcgtacacc	ctaaaagtca	catgcataag	gctgttttcag	agagcagagc	ctccatcttt	1320
ttgtctcttt	tctactttgt	acttcacttg	raaaaaatctc	aagtgaacttt	acatkgtata	1380
tttccattgt	aaccttgaca	tttctcaaa	ataaagcact	ttttgatcat	gaaatacatg	1440
aaatctttgt	gtgatgtgga	tcatagtttc	tcaggctccc	ttagataact	gcttatgaat	1500

```

attgttctaa ctctgtgtaa gaagagtaga aatcttttgc aatgttagaa ggtctgtatt 1560
attgatccag aatgcatttt gctagtctcc aatggatggg agagttaaata atgctgcatt 1620
cacaatttaa taagttactt tcccttgagc ctttaaggtaa cttcttcttt tctgtcaact 1680
acagcactga agttatagta agtgaatgag attatcagtt ttcaggggtg gtttttagagt 1740
actgtaaaatc aattagctgt cttcctaaaag agttacaact cccattcagt atactggata 1800
atgggtgtgt ggggtggggc ggggagggcg ggagatagtt tgtagaaaag aaaaaagaaa 1860
aaaaaaaaaa acacattttac ctttaagaaa tacagacaaa aaaaaaaaaa aagggcgggc 1920
gctctagagg atccaagctt acgtacgcgt gcatgcgacg tcatagctct tctatagggg 1980
cacc 1984

```

```

<210> 47
<211> 1987
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (442)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (444)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (473)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (493)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1011)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1025)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1111)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1119)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1169)

```

005430" 8864500F

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1234)

<223> n equals a,t,g, or c

<400> 47

ggcagcagac	cggcgctagt	cttgcgtcgc	acagcaggat	tgcgctgctt	tctgatgacc	60
ttcgacatgg	atggcgatgg	taatgaacgc	ttttcccgra	acgccccacc	cgcaaccgac	120
ccaggccgga	atgaccctga	tcgaggtcct	ggtatctgtg	ctgatccctg	ctgtcggcct	180
gctaaggggc	gcagtcattc	agctcaatgc	attgaaatac	accgacagtc	ccaggatgac	240
cagtcaggcc	agtttcattg	cctacgacat	gctcgaccgg	atccgcgcca	attcgggtgc	300
tgattactcc	tggggccagg	gtgaacgcgc	gccccccacc	acctcggctg	cgagtgtgcg	360
tgatctggac	ctgcacgact	ttgaagcgaa	tatcgtcggg	ttcgcggggg	aaagcgccaa	420
ggggtccgtt	gcggtcaatc	ancnagaagt	gacctcagc	atcagttggg	acnactcccc	480
tggagcgaat	gcncaaggca	ccccggaaac	attcaccctg	accagccggg	ttgcagtcca	540
tccgaggggt	ttgccatgag	aggtccagtg	tgcgggttca	gcctgggtgga	gacgtctgtg	600
gcattggccc	tgggcctgat	gttgatccct	gggggtgacc	aaattgcact	cagctccccg	660
accacttatg	ccagccagag	tgcggcttcg	ctgttgcagg	atgatgcacg	gttcgccctt	720
ggcaagctga	ttcaggaaat	acgccaggcg	ggcatgtttg	gctgcttgtc	cgctgeatea	780
atcagcaacg	ctcccgaggg	ttttgatcgt	cccattggat	ggagtaaccac	cggcagttcc	840
cggctccctga	cgctggtgac	cgccgacgtc	ggggaggggt	gcagcaagcc	ggactggacg	900
gtgcttttccg	attgcaccgg	ctctgcccac	gcctatgttg	gaagcccgcc	ggcagcgaac	960
gcccggggcaa	atccacttcc	cacttgcgca	aagctgacct	aacacctttg	nagggcgggc	1020
aagcnggaag	ttaagtaacg	ctggcgggccc	ccgagcaaa	cggtgggttgg	tggataacgt	1080
ggggcatttcg	atatcagttt	tccggcgtggc	ngacaagcnc	ggctcaacgg	ttgtcagccg	1140
atatgaccoc	acccccggcg	atgagtcgnt	catccgcagc	gtgcggattc	tgctgacact	1200
tcaggatcca	aatgggttgg	tgaagacca	ggcntacagc	gtggctcgcg	cactacgtaa	1260
tgccttggag	tagegtgccc	atgggttatt	acctctcccc	ttcgaggcag	gcaggcatgg	1320
ttttgtctgat	cagcctggta	tccctgtctg	tgttggcact	cctcggagtg	tcttcgatgc	1380
agggagcaat	ctcgcaagaa	aaaattaccg	gcagccttcg	gcagcgcaac	cagtcgtttc	1440
agcaggccga	aagcggcctc	aggcttggcg	agtcttttgt	gcaggcgcca	ggtttcgccc	1500
tgcgcccttg	ccactcgacg	gctgcgtgcg	cgccacctgc	cgaatcggtt	tccgtagtgg	1560
ggccgggggac	gaacccccga	tgcactgtga	cctggatagg	gatgaaagat	ggcgtctacg	1620
gtattcaaaa	cctgggggccc	ggaacgggtt	tggccaactc	ccggcagagg	cccaggccac	1680
ggtctatcgc	gtgacatcag	tgggcgtcag	tgggcactcg	cgttcgggtc	tggagtctgt	1740
tcatgcccgt	gtgggcagcg	ggccccggcg	gcgtttccga	cgaatcatgt	ggcgacaact	1800
gtaacagggt	agcagcacga	tgggcaagg	ttgcacagg	ttcaccctga	tccaattact	1860
gatcgcggtg	gcctcgtgcc	gaattcggca	cgagattaat	tccccaaaa	atctttgaaa	1920
tagggcccgt	atttacccta	tagcaccccc	tctaccccc	ctagagccaa	aaaaaaaaaa	1980
aaaaaaa						1987

<210> 48

<211> 2113

<212> DNA

<213> Homo sapiens

<400> 48

ggggaaatat	gatggctttc	ttctttgccc	tctttgttat	ttcttttgtt	attgttgttc	60
agatggagtc	tcactccggc	ctgggcaaga	agagcaaaat	tctgtctggg	gggcaggggg	120
aagaggatata	tttttttgat	taaaatggaa	tgccttccrc	aaactgttaa	aattaggtag	180
tgttacaaagt	ttaaagaata	ggttttagcca	gtgtgatcat	tgcagtgtaa	taaaaaggat	240
cccaggtggc	acacatgcta	gtgtgggtgcc	cagatcgctca	actgaagtga	aggataacat	300
gcgttttcaac	attttctata	tactaggcag	ttttttctaa	gtcttgggtt	atttgtatat	360
aatacagtaa	aatttactct	ttatacgtat	gattccatta	atattaacaa	atttaaacag	420
tcttacagct	aaatacaatc	aagatcacaga	acattttccat	cactacagga	agttgttttt	480
tgctaatttta	actaaacttc	ttaccatgct	caacccccca	ccccaccct	gagaaccact	540

gcttttgtttt	tctgatcata	tagtttggcc	ttttcaaawa	tgtcatacag	ttggaatcat	600
atagtatgca	tgaatcatgt	agctgaagtt	ttcatctcac	ttaggtaaac	acctaggaat	660
aggagtgtctg	ggttatactc	taagtgttaa	acttcataag	aagctgctaa	actgttttcc	720
aaagcatctg	taccattttc	ctttcccacc	agcaataaag	cattcattag	tctacgtact	780
caccagtgtct	agtgtggtca	gaatgratag	ttttaattat	acacattata	atagatgtag	840
agtgtgtatct	catcgtgatt	ttgccttttc	ctaataaata	tctttcctca	catattttgtc	900
attagtgtgt	cttcttttagt	aaatgggtcct	attgttttgc	ccattttttaa	aagtttgagtt	960
ttcatatttgk	tcaattttcga	gagttctttca	tatatctctgg	acacaagtcc	tttgtcagac	1020
atgtgatttg	caaatattttt	cccccagagt	ttttcctgtc	ttgtcagtcc	cttaacagtgt	1080
tttttaggaa	ggagaacagc	tgctttttaat	tttgataaag	cttgcaattg	tttttctttt	1140
atggatcatg	cttttgggtgt	agratctgag	aactctttct	taaaccagtc	acacatgtct	1200
tctgtttttct	ttgaagcttt	acaggttgag	gtacattttg	gtccatgac	acttttgagc	1260
tacttttttat	atataggtag	tataagatat	ggtttgaggt	ttttgtttgg	ggtttttttt	1320
cttctctgcat	atgaatgttc	agttgtttcca	gcaccatttg	ttgaaaaaac	actatccttt	1380
ctctagtaat	ttgtctttttt	acttttctca	gttgactatt	tgtgggtctg	tttttaaaact	1440
ccattcttata	ttatgtctac	attatgaact	ttatagttag	tcttgaaatt	mggtaattgtg	1500
ggctctttctca	cttgtgtctt	tcaaaaattgt	tttggtctct	ctaattcttt	cactttttcc	1560
atataaatatt	tagaaamagc	ttattgattt	ctaccacttt	cccccaaaaa	gccactttggg	1620
aatttgacta	agttttacatc	gaatctaata	aatgattttg	gagagaagtg	gtatcttagc	1680
aatacagtct	ttttctgataa	cacttctctgt	tttagtctct	tttctcattt	aataattttc	1740
caacatttaaa	accttgggaca	aatttagatg	tgtatctgaa	taattccagt	tttgttgcca	1800
tttaaaatgg	tacataatcc	ttattttata	gatgagaaaa	ttaagtaact	tgcccaagtc	1860
acacagttac	taaatgacaa	agctagattg	aaatctatga	gcttataaac	taatgtcctg	1920
ttttgagcta	cagtactagt	tttattaaat	tgttgtgggt	aaactgaggt	gggaggatag	1980
tttgagcacg	gaagattgag	gctgcagrga	tctttgatcc	tgccattgta	ctccagcctg	2040
gcaacagagt	gagaccctgt	ctccggaaaa	aaaaaaaaaa	caccatggaa	gcaagcaaaa	2100
aaaaaaaaaa	aag					2113

<210> 49

<211> 3465

<212> DNA

<213> Homo sapiens

<400> 49

agaaaaatgaa	agcaccaaaag	agcctttcttt	gctacaatat	ctttgtgtgc	agtctcctgc	60
aggatttaaat	ggtttcaatg	tactttttatc	tggcagtcac	acccccctta	ctgtgggccc	120
gtctctcaggt	cagctgcctg	ctttcagttg	cccttgcatg	gtcttaccat	ctccacctct	180
gggcccctttt	cctgttctct	attctcctgc	aatgcggggc	ccggtttctt	ctactcttgg	240
tgtctctcca	aacacaggac	ctgtgaattt	cagcttgccct	ggccttggat	caatagccca	300
gctctctgtc	ggccccacag	ctgtgggttaa	tccaaaagtcg	tccacactcc	cttctgcaga	360
ccctcagctt	cagagtcagc	cttcaactaaa	cctaagtcga	gtgatgtcaa	ggtcacacag	420
tgtcgtccaa	caacctgagt	cccccgttta	cgtgggacat	ccagtctcag	tagtaaaatt	480
acatcagtca	ccagttccag	tgacccccaa	gagcatccaa	cgcacacatc	gtgagacgtt	540
tttcaagaca	cccggcagcc	tgggagaccc	tgtcctgaag	agaagagaaa	ggaacaatca	600
cgaaacacca	gctcggccca	gaggagacta	gaaatcccca	gcggcggcgc	tgactaacct	660
gccgcttttg	caggtggggg	tgggatcaaa	cgccttgaga	gtcccggatg	tccgaggcgg	720
gatgcaaaac	atcccgtcct	gagcacgggt	ccttctctct	tctttcatcc	acacttctgt	780
taacttccca	ccaccatcaa	tcatctgatt	tcttgaaagt	aattaatgtg	gcatttaata	840
ccagtttagag	ttccgactct	gcatgggtgtc	acagtgaag	cgcgcactga	cttatggttt	900
tgattcaaga	atcgtcttat	tgttggaagt	agatctgaat	aggataccgg	agccttgttt	960
ttctaaagggt	gggctgtgtc	tagcacttaa	ctagggttaag	cattctttaac	atgtattttcc	1020
acttgccctg	agtaaatctg	tgggtgagaga	agcttccctt	ctgcagttta	aaaaagctac	1080
tgtctcctta	ggcttcatca	ggaagccatc	ttcagtttgt	aatcctatgg	tgttatttat	1140
tttgttccctg	aaatgggatt	tagtgcaaaa	agtttacaac	tacagtcttt	aacacatttt	1200
tttcagggtta	tgacgacttg	aatgtctata	cttttatctt	ataatctgcc	ctgcacttat	1260
tttacaacct	agtaataatg	tggataaaatg	tatctacatg	acacatgtca	agacaaaaat	1320
aactgtgaat	gacacacctt	gctgtaaaatg	aactgtgtca	acctgactgt	tgggcttgag	1380
aacaaaagatg	aactctagaa	ctctagcagc	ctaactgtctg	cttctcaaat	aactgtgtga	1440

acagtgagat attactgttt gtttctaaaa atcctactgt gccagtttc cttcactaca 1500
 tgccctgcat tttttattta aatatcttagc tgragcgcca tcagatatgg atgccttcta 1560
 acaattgctg tttgtaaaat aaatcaggat ggtagaaagt gatcttatgg aaaattggaa 1620
 cctggatgag accttttctg tgaattctga agagtaatga tgcgaaaatt gatacagggc 1680
 aagagatgac tcttttgttt ttcttctact tcatgtccag aagagtaaga gggaaaatgg 1740
 acatatgttt catatccaag ggtattccaaa ctgtagttag tgggtacctc tgaaaaatga 1800
 gaatgggtgag cgcacgggtt ggttgttcta gcatgaatac aattctggaa actgttatgc 1860
 aatttccctt ttttaaccct cattacttta ggggtgcatt aagtgcgcaa actatactag 1920
 ttctttgtat tcttagactt gctgatattt accttctctt tgtctcttca gaggtaaatgg 1980
 ttcccttctt tcttccctac ttctctctct tctctcttcc tccctctctt cctacttctt 2040
 ttcttctctt ccttctctct cttaaaaacta tcttagatgt agaattctgg tgtagggttt 2100
 tattttattt ttattttttg acccaataaaa atgttatatg aaagaatgaa aatatttaatt 2160
 taagagactc tgggagtctg aataaaagttag ctttatatta actacaggac aatatttagcc 2220
 ttattacccc cacaagattt tttaaaaactt gaggttaggtt gctacattaa ataaaattctgc 2280
 tacttatata aaaattcttta tcaacactaa accttttaag tttaacaagt ttttttttct 2340
 tttttacagt cttctataga gttagggttaa aaatgtgggt ctaaccatca acaattgcat 2400
 ggttaaatga ccttgaacta aaactgatgg gtcccttacc aaaacaaata aaaatatacc 2460
 tttttcaggt ttcaatctgt gcagggtata tgcattgttaa ttctacctat ctttaagaact 2520
 tccacaaaaat atttcatgga gaggtctgca tttagacgga aacagaaatt gcttttctct 2580
 tcactgttcc tgaatgctct atacttgttt taacattttt gctatctttt tttattattc 2640
 tgatcatgat atgaccattt aacctcagaa ttcataactc ctgaggggtg ttaagaagca 2700
 gtcccattgg tgaggatatt atgacttgggt gaccttcttt aggagttagaa aaccaaggac 2760
 aattgtctct gtattcagta tccacttctt aatgtggctt tatatgtaaa aataataatg 2820
 cagtgggtgt tctgtcagg aaaataaaatc ttacagaaca actgggtggaa ttgaagctgc 2880
 tgcgttagac ttggatattt tgggttagtga agaagcaatg gcaatcttga gtctattatt 2940
 gtataattta gtaaaagaaa aaaaataatcg ttggtgtctc tactaagaga atgcagcttt 3000
 tttaggtgtt cacagaggct gtgtgtgccc tacactgacc aggggttgtt aaacctttt 3060
 attctgggtac aagagtctgg ggtataactt ttatacttga atctacctac caagtttaca 3120
 ttttctcaat ccttttctgt aggtgctatt tctgtattta aataactttt ttttaacgta 3180
 aagctgtctt cctgtctatc cattgcaact ctagtgttat gtaggtatta atttcatbgt 3240
 tgcctactgc ttttgttttc ttattactta gctctgctct ttttctaat ggctatatca 3300
 tctatagcta tttacttcta actgtactac atgtaaaact attttttgtt ctgatttttt 3360
 ttctaataatt ttttaggaaaa tattaagctt tataaaaatg caataaaaaa taacttcatt 3420
 aaaaaaaaaa aaaaaaaact cgtagggggg gcccgtaacc aattc 3463

<210> 50
 <211> 1237
 <212> DNA
 <213> Homo sapiens

<400> 50
 atggggccagg aatgggggtcc ccggggcatgg tgcctgggctt cctgggtgcag atctggggccc 60
 tgcaagaagc ctcaagcctg agcgtgcagc agggggcccaa cctgctgcag gtgagggcagg 120
 gcagtccaggc gacctgggtc tgccagggtg accaggccac agcctgggaa cggctccgtg 180
 ttaagtggac aaaggatggg gccatcctgt gtcaaccgta catcaccaac ggcagcctca 240
 gcctgggggt ctgctggggcc cagggaacggc tctcctggca ggcacccagc catctcacc 300
 tgcagctgga ccttgtgagc ctcaaccaca gcggggcgta cgtgtgctgg gcggccgtag 360
 agattcctga gttggaggag gctgagggca acataacaag gctcttctgt gaccagatg 420
 accccacaca gaacagaaac cggatcgcaa gcttcccagg attcctcttt gtgctgctgg 480
 ggggtgggaag catgggtgtg gctgcatcg tgtgggggtg ctgggttctgg ggccgcgcga 540
 gctgccagca aagggactca ggtaacagcc caggaaatgc attctacagc aacgtcctat 600
 accggccccc gggggcccca aagaagagtg aggactgctc tggagagggg aaggaccaga 660
 gggggccagag catctattca acctccttcc cgcaaccggc ccccgccag ccgcacctg 720
 cgtcaagacc ctgccccagc ccgagacctt gccccagccc caggcccggc caccctgtct 780
 ctatgggtcag ggtctctctt agaccaagcc ccaccagca gccgagggca aaagggttct 840
 ccaaaagtggg agaggtctga gagatccag gagacctcaa caggacccca cccataggta 900
 cacacaaaaa agggggggtc gagggcagac acggtggctc acgctgttaa tccagcagt 960
 ttgggaagcc gaggggggtg gaacacttga ggtcaggggt ttgagaccag cctggcttga 1020

acctgggagg	cgagaggttgc	agtgagccga	gattgogcca	ctgcactcca	gcctggggcga	1080
cagagtgaga	ctccgtctca	aaaaaaaaaa	aaagcaggag	gattgggagc	ctgtcagccc	1140
catcctgaga	ccccgtcttc	atttctgtaa	tgatggatct	cgctcccaact	ttcccccaag	1200
aacctataa	aggcttctga	agaaaaaaaa	aaaaaaa			1237

<210> 51
 <211> 1397
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1383)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1396)
 <223> n equals a,t,g, or c

<400> 51						
gggtccctagg	agttgagcag	gaacaggcat	ctgtgggttta	cggcgacctg	gctctccgcr	60
ggccacgtgg	gtgggtgaggg	cacacgagtg	ggaagcgga	cgcagctgtt	tctccccgac	120
cgtggccttg	ccaaagactt	ttaatagcat	tttttaagt	caaaacgtct	aggtaaaaat	180
ctttatcatc	agtgaccaaa	ttagaatgta	tttaatatag	taggtgggtt	aagaactgtt	240
ttaacgtaag	acaaactgat	agcaacattc	tggtgtttta	aaggaagtgg	gtccgtgaca	300
ttctgcagct	agtcactac	tccaaggtaa	ctatcgactt	ggtttcagt	aatctatttt	360
gtttttaact	acagtgtatt	attagctcag	tatctagaaa	ttacgtatat	tttgtgtac	420
tgtcatcgat	gtgtaaaact	tggttttatt	tgtatttatg	cacttgggtt	ccatttggag	480
cctctggtct	tttctgggat	aagtgggtgt	tgccgagaca	tctcccggtt	gtcagtggtc	540
aggagcagct	gagctctagt	ctgccagctg	ctctgctctt	tctgggaagg	aggtggcgcc	600
cgccccctcag	gggtgtctcca	gggctcagct	tccgggggtg	tagagctggg	gagccccagg	660
gggtgggggga	cagctgggag	atggagggtg	cacctgctcc	cctagatcag	tactggctct	720
gaggacaggt	gagcagtggg	aagaccaaa	aatggctggc	agcgtgcca	rggttggaaa	780
tgggggcaag	atcctggggc	tgtgtgccct	ggggcctccc	tcacctgtct	tggtggccat	840
ggcctcaggg	atggctccta	gggtggctgag	gcacagcagt	ggctggaagg	tgccccgtgg	900
aggctgaggt	ggaggcgcg	ccagcagctc	ccccctgtgg	ccatggcggg	cacgggscgt	960
aggagctggc	tggcgccgg	ctctgcatgt	tcttgttgcc	tgctgtctgt	aactctagt	1020
ttcgacattc	gccgtgatac	agtgggtgtca	cgacgtgtgt	aactgtggtc	agcagacctt	1080
gttccgcgtg	gacgcctcaa	gtggattaat	ttctggaagc	ctcaatctgt	atgtttgagt	1140
atttacatga	gaatgttatt	tgaatggaat	tttcttaacc	cagaaggtag	tatttataat	1200
catttacttg	tagcgaactg	tttaaaagta	acacttgttt	aaattttttt	acactatagc	1260
atttatgcaa	tggtttacag	aattcatgga	gttattttta	tcagtatggg	aattaattaa	1320
aaccttgaat	cttaaaaaaa	aaaaaaaaag	ggcggccgct	ctagaggatc	caagcttacg	1380
tangcgtgca	tgcgana					1397

<210> 52
 <211> 2271
 <212> DNA
 <213> Homo sapiens

<400> 52						
cggcacgagc	ggcagagta	tgggagggtt	ttggaccatg	aggaggaggc	cctgtcatcg	60
ggcagtgctg	aagaggcaga	agccatgtta	gatgagcctc	aggaacaagc	ggagggctcc	120
ctgactgtgt	acgtgatatc	tgaacactcc	tcacttcttc	cccaggacat	gatgagctac	180
attgggcccc	agaggacagc	agtgggtgcg	gggataatgc	accgggaggc	ctttaacatc	240
attggccgcc	gcatagtcca	gggtggcccg	gccatgtctt	tgactgagga	tgtgcttgct	300

gctgctcttg ctagaccacct tccagaggac aagtggagcg ctgagaagag gcggcctctc 360
 aagtcacagc tgggctatga gatcaccttc agtttactca acccagaccc caagtcccat 420
 gatgtctact gggacattga gggggctgtc cggcgctatg tgcaaccttt cctgaatgcc 480
 ctcggtgccc ctggcaactt ctctgtggac tctcagattc tttactatgc aatgttgggg 540
 gtgaatcccc gctttgactc agcttcctcc agctactatt tggacatgca cagcctcccc 600
 catgtcatca acccagtggg gtcccggctg ggatccagtg ctgcctcctt gtaccctgtg 660
 ctcaactttc tactctacgt gcctgagctt gcacactcac cgctgtacat tcaggacaag 720
 gatggcgctc cagtggccac caatgccttc catagtcccc gctgggggtgg cattatggta 780
 tataatgttg actccaaaac ctataatgcc tcagtgtcgc cagtgtagagt cgagggtggac 840
 atgggtgcgag tgatggagggt gtccctggca cagttgcggc tgctcttttg gattgtctag 900
 cccagctgct ctccaaaatg cctgctttca gggcctacga gtgaagggtt aatgacctgg 960
 gagctagacc ggctgctctg ggctcgggtc gtggagaacc tggccacagc caccaccacc 1020
 cttacctccc tggcgagctt tctgggcaag atcagcaaca ttgtcattaa ggacgacgtg 1080
 gcatctgagg tgtacaaggc tgtagtctgc gtccagaagt cggcagaaga gttggcgctt 1140
 gggcacctgg catctgcctt tgtcggcagc caggaagctg tgacatccctc tgagcttgcc 1200
 ttctttgacc cgtcactcct ccacctcctt tatttccctg atgaccagaa gtttgccatc 1260
 tacatcccac tcttccctgc tatggctgtg cccatccctc tgtccctggg caagatcttc 1320
 ctggagaccc gcaagtccct gagaaagcct gagaaagacag actgagcagg gcagcacctc 1380
 cataggaagc cttccctttc ggccaagggt ggcggtgtta gattgtgagg cacgtacatg 1440
 gggcctgccc gaatgactta aatatttgtc tccagtctcc actgttgggt ctcagcaac 1500
 caaagtaaaa cactccaaga tgggttcatc ttttcttctt tccccattca cctggctcaa 1560
 tcttcttcca ccaccagggt cctcaaaagg cacatcatcc gggctctcctt atctgttttg 1620
 ataaggctgc tgcctgtctc cctctgtggc aaggactgtt tgttcttttg ccccatcttc 1680
 caacatagca cacttgtgca ctgagaggag ggagcattat gggaaagtcc ctgccttcca 1740
 cacctctctc tagtccctgt gggacagccc tagccctctg tgtcatgaag gggccaggca 1800
 ttgggtcacc gtgggacctt ctccctcact cccctccctc ctagtgtggc ttgtctgtca 1860
 ggtgcagctt ggcgggagtc caggaggcag cagctcagga catggtgtctg tgtgtgtgtg 1920
 tgtgtgtgtg tgtgtgtgtg tgtgtgtgtc agaggttcca gaaagtcca gatctggaat 1980
 caaacagtc tgaattcaaa tcttgtttt tgcacttatt gtctggagag ctttggataa 2040
 ggtattgaat ctctctgagc ctcatgtttt catctgttca aatggcactg atgatgtctc 2100
 ccttacaaga tgggtgtgag gagttaaatgt gatcagcatg taaagtgtct ggcgtgtagt 2160
 aggtctctaa taaacactgg ctgaatatga attggaatga taaaaaaaaa aaaaaaaaaa 2220
 actcgagggg gggcccggta cccaattcgc cctatagtga gtcgtattac a 2271

<210> 53
 <211> 2769
 <212> DNA
 <213> Homo sapiens

<400> 53
 ctgccaccgc cgtccccccc ctcccgctgc cctcggggcg ggctgggtcg agctgcgagt 60
 ccttcggact tcatctcatt gctcagcgcg gacctagacc tggaaatcgcc caagtccctc 120
 tactcgcgag attctctgaa gttcacacca tcacagaatt ttcatagagc tggactattg 180
 gaaggtcagc aaagtaccat tttaaagcat attgtgttag tatgcaaagg ctttctctga 240
 aatggagtgt aaatgggaaa gtatgaaact ttgcaaactc acacaatgta gttttctcct 300
 aaagagtctg atccttcttt tagagcagct gaatgtttca atgggttttg ttgctgcgtt 360
 tgatgtgctt gtcggctgtt ctatctgctt cgagaaacat tgaaaaaaaa atcatttttaa 420
 attatgtgtt gagtgttcta ctttagaatt ccagaccttc atcttagctt tttatacaca 480
 aaatagaatg tgaaaaggcc caaacattaa catgaatata aaagagtgc accaaacaca 540
 taattagttt gaaaattcag aatttagaac atttatatgc tgagcatttc aaaatatgtt 600
 aattatttat tgcaaaagca ttgatgccat tgcttatgca ttactctaa gggtaaggaa 660
 agccaagtta tagcagatga gattgagcta tgcttagaag aaaggggttt agaaaagtct 720
 ggaaatgtta atagagtct tagattagtt taaacagctt acacttactt tagaaaactc 780
 ttggctttgt gctgtgtgtt gttttaacat ttttaagacat aaaatagtct tgtgtttttg 840
 tagattttga agtgatttca catatatcat cttttaaact ttataacttt ggaattggac 900
 agcaaaggta ctaatttccc cattgtagag aagagaaact aaggctgaaa ttaagaaacc 960
 aaaaaaaaaa aaagtccca cagtagaaga aataatactt tctgcgtttc agttagtgtc 1020
 ctttatgcaa agcggccacc gtgaaatata catgtaacca gtaacaaaca ttttatggtc 1080

tacttttaaaa	aggccctaaa	tattttaagtt	tgacttgaga	agattttttgc	ctcccttgga	1140
ggtagtcggg	gatagtgagg	ggcaagtggg	ttttgtagtt	gagcttaaat	tcggatacca	1200
acttagctcc	ttattagttc	tgtgacttcg	ggcaagtgat	tttacctctc	taaactttta	1260
tattcttccc	gttaaaatgt	agctgtctct	taaattttag	gagctaattg	gtattaaatt	1320
gcctagcata	gcgtctagct	taataaatgt	tagttttttc	ctttagtatc	agctaaattt	1380
ttttaacagt	ataatttaga	gcataataaa	tgttctcaaa	taaaataattg	gttaaatattg	1440
ttttgtacgt	gtaagaagcc	catagatata	cattagttatg	aaaaatcaaat	atttttataaa	1500
ctacaatttg	aagtggagaa	tttttagcag	tgtttcttag	tgaagcagat	ttctggtttt	1560
tattcatatt	caattttgtg	ccatgtttgt	gagacataat	tgtctgtaca	aacccatctc	1620
acttcttgg	caacaaacca	tagagtgtta	taatacataga	gatgatcagg	gaggagaaag	1680
acatgaagaa	aaaaatcgat	gttaattatt	taagcaaaata	tttttagtga	gctgatggaa	1740
atacagacaa	ccatttagca	tgtttattta	catgtttatg	cctaaataact	ttcgttaatt	1800
tttcatctta	gttaaggggg	ttctcatctt	aagtaagggt	accttttttag	aaattatata	1860
taaaatataa	catgtataag	tatcaattct	gtcatgccct	ttaaaatgtt	ttgagacagg	1920
gtgtcttaaa	aaagtgtgtt	gcttctgtta	tgaagtgtct	aatctgtgcc	acctcattgc	1980
tatttctctt	ttattattga	catttttaag	aatacataaa	agtagagaga	ataaaaataag	2040
ccccatatac	ccatcaccac	agtttaacca	gratctaatt	ttgcttcttt	tatccctctt	2100
tctctctcaa	gctggattat	tttaaaaaca	atatcaaaac	tcagatcaat	tcatacataa	2160
gtatttctgt	attacagttg	ctttcttata	ttaaattattg	atacaattta	attgttaata	2220
taattattgt	attaaatttt	aatttactctg	tatagtttat	aaactatttt	ttggaatatt	2280
ctagtttatt	tcagcaaaagt	ctcttctgtg	tcttctgtgc	ttttttcaag	acagagtgtt	2340
gcaggagggt	accgcttcta	gtatatagta	tatcttataa	cctatgttga	aattgttaggc	2400
catgctgcta	gatttgagtt	catattgttg	ctctgacatt	tacttgtatg	gccttagcct	2460
aataatttaa	tcttttttgc	ttcaattttc	tcattctttaa	acgggagcaa	taatagtgcc	2520
tcattcctagg	tttttgtgaa	gattatttga	ggcaaatctg	tgtaaagcat	ttaaatttagc	2580
acatgctaag	tgctcagtaa	atgttagcta	aagttaaaaa	atttttataaa	cctaaatgct	2640
agctgtagag	tgtttactgt	gtgccaagaa	ctttacaaat	aagaactcct	gaggtgggca	2700
tatcacttgc	ggtcaggagt	ttgagaccag	cctggcttac	atggtgaaac	cccatctcta	2760
ctaaaaaaa						2769

<210> 54
 <211> 1389
 <212> DNA
 <213> Homo sapiens

<400> 54						
ctgcaggatt	cggcagcagg	atctgttgac	cacagatgta	agaatttatt	tctggagcct	60
caattctaat	ccattgctct	acatgtgcac	tgggtttcctg	gggctgccac	agcagaatac	120
cacagacttg	ggggcttaaa	caacaaagtg	attcctcaca	gttctggagg	ctccaagtct	180
gagatcaagg	agtcggcagt	tttgggttctt	cctgaggctt	ctctccttgg	cctgcagatg	240
accacgttct	cactgtgttc	tcagctggcc	cttctctgtg	catgtacatc	cctgggtgtct	300
cttctctctt	ttgttgacta	taaggatacc	agtctgtgtg	gaccagagcc	ccactgtaaa	360
ggcctcatct	taacttaatt	cacttaaaata	acttattttc	acacacagta	agtctgaggt	420
tgagtctttt	gaattctggg	ggagacactg	cagcccatca	cgratgttga	cgtgtgccac	480
cgccacactg	cctggttact	gcagagtgtt	agtaagtctt	gaaattagaa	agtataagtg	540
ctccagttct	gttatttttt	aggattatta	gggctattct	gggtcccttc	catctccata	600
tgaatttgag	aatcagcttg	tttatttctg	ctaaaattta	gttgggattt	tttttttttt	660
gagatggagc	ctggctgtgt	caccaggctg	gtgtgcagtg	gtgcaatctc	gcctcactgc	720
aacctccacc	tcccggttcc	aagtgattct	cctgcctcag	cctcctgagt	agctgggact	780
acatgcgcac	gccaccacac	tcagctaatt	tttgtatttt	tagtagagac	gggggtttcac	840
catgttggcc	aggatggctt	tgatctcttg	acctcgtgat	cgcgccacct	tggcctccca	900
aagtgtctgg	attacaggca	tgagccacct	cgcctggcct	cagttgggat	tttcacaggg	960
ctcgttttga	gtcttcagat	caatttgggt	agtaactgaca	ttttaaaatt	aagtctaccg	1020
atccacataa	tgtgggatgt	agttaatatg	gacaagtga	tttattactc	ctccaaaaaa	1080
ctattttcac	aaactttata	tcaacatgag	aaatcatgtt	gtatctttct	acctggaggg	1140
agcaagaaag	tcaggtgggtg	tgccttttgt	acatgggcaa	cccaattttct	tacttagact	1200
ttcttttggc	cgcctggaaa	aaaaaaaaaa	tgaggtattg	caaaaatgtg	ataattgtct	1260
tccttagtat	gaaaaactgt	taaaatgagt	aaagcctgtg	ctcaactaga	attctcacat	1320

ttccggttttg atgtatccgc atttcacctc gtgccgaatt cgatatcaag cttatcgata
ccgtcgacc

1380
1389

<210> 55
<211> 748
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (646)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (741)
<223> n equals a,t,g, or c

<400> 55	
ggtgcgggccg tttanantag ggatccccng gntgcaggaa ttccggcacga gcttattgka	60
tgtgctmcag tgacaggcat ctggggacttt tccaatctga agctgttagg aacaccacca	120
ccatgaatat tcttgatatgt gttttctggc tctgggggtgg agttgctggg tcatggggca	180
ggcacatttt catttttact tcagtaaaaa atgtcyagkg ggccagccac tgtgcctggc	240
ccaratgact tcttcacaag gagacacata ctgtgtgtat cagtcaggat ccaaccagga	300
gacaaaaccac acagtaattt aaacagcgat tgtttaatat acagaattgt taactatgat	360
aggggatttg agtaagagga actgggttact aagaaataaa gagaatgcta acgaatgtag	420
aaatagactg ggcacaatgg ctcacacctg taatcccagc actttggggag gcaaggcagg	480
tggatcacga ggtcaagaga tcgagaccat cctggccaac atgggtgaaac cccgtcccta	540
ctacaaaaag tagctggggcg tgggtggcgtg tgccctgtagt cccagctact caaggaggct	600
gaggcaggag aatagtttga acccaggagg cagaggttgc ggtganccga gatcttgcca	660
ctgcactcca gcctgggtga cagagagaga ctccatctca aaaaaaaaaa aaaaaaaaaa	720
actcgagggg gggcccggtg nccaattc	748

<210> 56
<211> 4202
<212> DNA
<213> Homo sapiens

0054988.01503

<220>
 <221> SITE
 <222> (57)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (58)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (61)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (4137)
 <223> n equals a,t,g, or c

<400> 56

accagctcaa	agattcatga	gtttcatcga	gtcactgtga	gtggagccca	tgctggnttg	60
ntgccccctg	tgtctgtgca	tgcgcgtgtg	tgtgtggggc	tgtgtgcatt	gctgggccag	120
cttgaagggg	aggcccgtca	tgtccctgca	ctctgttttg	caagatgcca	aaccccagtt	180
ctgatggggc	tccaacagcc	aggctgtggt	cccttgacgt	tcctcacctg	ttgccaacct	240
atccccgtagt	gaactgaaac	cccaatgaag	acagaactgt	gcctggggag	atgcaatgag	300
gtgagggctg	aactcatcct	tttatatttc	ttttcaagat	tggatcagag	ctcatctcca	360
tccagtcttg	tttctatgaa	ggcttcaatc	tgtttccatg	caaatttgct	aatcagagcc	420
cagagctgct	gggtccctca	tctccctcat	ctattataga	ttgacttaca	gcagggagag	480
aatctcttta	gctcatttct	aatgggggtg	ggatcacaa	atggctctgt	ccaatctgca	540
tcttgttgtg	tcccaagacc	ctatctcttc	cccaacattc	ttattgcctt	tggctcccag	600
taaggaacga	attggggggc	agggagggaga	acagggggga	tcaagaaggg	aaaccaattt	660
ccccctttga	aagtgggttc	tttgaactat	gtgtttgggg	gaagtctctc	tggataactaa	720
tttgaattta	tatacctcat	gttttggggg	tttgacgtat	atatatatat	atatatatat	780
atgcatacat	atttcataat	atttggaagg	tttttgatgc	tagaaaaatg	gaadacaagag	840
aaccttcaaa	aatgggtact	agatgggaac	tggaggccaa	tctttcataa	agccagcccc	900
atagctgctt	gctgttaggc	ctccagccat	tttgacattg	gggtggatag	tgcattcacc	960
tgcctgtcag	tgcattcacc	tgcctgtcac	ccagtctctg	ggatgtgctg	gtgctgagcc	1020
tttgcctctt	ttccaaatgg	ttacagggat	gttgatcagc	tccaccagag	ggagctctga	1080
tgggaggaat	tgtcttgcca	tccttgtccc	tgtgtctcct	gtcggcaggc	agccattgta	1140
tctcaccagc	agaccaggag	actgggtccca	aggttactgc	accacagggc	aatttccctgc	1200
catagttagg	aaggaaaacac	ctgaactaaa	tgggaagagac	atccctgcgg	tgtttaatat	1260
cacacccatg	ccctttgtca	ggttaccatg	tacagagatt	acttggagag	cctcatgccg	1320
tctctacctt	cgcacactgg	tcaagtatct	gctgagcttc	ttggccgcaa	ggatgcagaa	1380
ataggctgag	ggtccatggg	aagaaaagaca	caatgaggca	gtaggagggt	gggaagaaaa	1440
gaagacagac	tttcaaaaatg	gaattaggca	ctggggagag	atcagtttcc	ccacatcagg	1500
gagaagaagg	tatagggtgg	gaaggggggtg	gccaggagca	gaaggaagaa	gactcaagat	1560
ggaaagggag	ccgctgtgcc	tgtggcaata	ccacttggag	aggctcgactt	catacctcca	1620
agccttttcc	cctgggcctt	tgaattgtgtc	tgtgccccct	ttcttgtcct	ctctgcagat	1680
ggccagtagg	ggctacctca	tcctcgtgct	gttcttgtgt	ggctttcttg	gcagtaggga	1740
tcttgaattt	ccctttctaac	actgtgcccg	gcaaggcggg	gagcattcct	ctgcccccttg	1800
tcttgtgcca	acctggaaag	gtgcagtcta	gatttcagtg	agaaccctgc	cagctgagcc	1860
ctgtgcatac	actaacttga	cacagagtgt	tttcccacta	gaagctctgc	tctgctctcc	1920
tggcccaagt	aggggattcc	atgccttccc	tttcatggtc	ttagcaccag	cagcctagtt	1980
tctcccttcc	agagtctcca	gggatgcaca	attggattgg	agacaaacct	cgtcagatgc	2040
tcatcccccta	aaaggttaat	tgtgtatttg	tggctgcgtg	tgcctttgtg	ttttcattct	2100
cttcccattt	ttgtacattt	tggctcttctc	tgtggtttta	tacttgggtca	aaagtaactcg	2160
tcttgggtatt	gcactgttgt	gtgcattgaga	aaactggggg	aaggctcact	ggtacaagaa	2220

aggacccctg acccctttcc ttctctgtgg tccccggcat tagattgggg gttctgggag 2280
 aggcaggtga atgtccctaag tgaattgttc tgtttgtaac tggaaatgttt ttgaagtctt 2340
 tgggtgttgct ccgtgaaaag acatcgccac ctgggtgtca tgagggtgtct ttgcagaaca 2400
 ataaatggca aatgaacaac camaaaaattg ttacycttgt tggccttctg ctgtttgtag 2460
 attagtgcac ctatctgtga gggatttggg ttacctccct gagtctgtaa gcaaccacaa 2520
 gccctgccac tgggtggggg aagtccctcc ccaaccactt aaaaacaaat tttcccacat 2580
 attaccccac cccacacatt tgacctggc tagactttgt ttgcctaaag gaacagacca 2640
 cattgtctggg aaaatgagta agtgaacgtg tgggagaaaa acacttttag aatcacgaat 2700
 attcactttt aaagggtctct ttgcctggct gcaatatagt gtgtgtttaa attattcaca 2760
 ggctgttgtt tctcaaataa atgtttaata ttaatcattc ccaaactgac aagaacacaa 2820
 aaataaaaatg caaatacaga gccagctttg tcacccaaat ctgtgtctat ttctgatagt 2880
 ccatggaatg tggttttctt ggaagccagg gttgggtctcc ccacagaccc caggctaagg 2940
 tcaccagtta ggaacccagg acttgggaagg cagagctgtg agctcttcca tcagggatct 3000
 gactccgcaa aacgacttga tgaatgcaat tggcaaaact ccatgttcgg acttcacatg 3060
 catgagccgt tggacagagg gtttcttagt atatacttta atgcatgttt atgtgcaatc 3120
 ttgttagtgg gtatacaagt ttgtgaagaa cttctcattt caataggcag ttaatgtaat 3180
 gcattaaaag cctgggaatt tggggctata tttttccctt ctgactcaat aatcttcaaa 3240
 gaattcatag gaaagtcagt acttgcagac aagtgggttag cttggctaaa atgtacaaaa 3300
 caccagaaac ccacaaaaca ctacagaggtt taggagaatg ttttaatgct taagaggcag 3360
 gatcaagtga agaggttaca gaaatcagtg tctctggctg ggcagtcaag agagcgggct 3420
 caaatctctg gactcacttc tctgtgtctc ggttggaaat gaatgggtat cctgggtccc 3480
 accctcccac acgctgtgat acttcaaaact ccttgggtga agggcctctt ctacagcccaa 3540
 gatcttgatt gngaacatta acaaaagagaa cagtcatcct ccacagaaga taactcata 3600
 atgacatttg attcagtga taaatatatc atttaaaaaa atattgtagg gggatcatga 3660
 aagtagtggg ggtaattaca atcaggagag atttgggtatta aaattgagca aagtcccaac 3720
 tctcaccaga tgacaattat gcatcctgct agatgcccc aaggctgtcag cctgggaactg 3780
 aaataaatgt gttataagtg gtgctggatg cctttttcag ttcatctgaa aacatggatt 3840
 tgatcatgct agctcccttc ctgctggaaa aaaaagtagt ttgcataatt ggtgttaact 3900
 actctgtttt gattctacag agtaagtaat actcaaatgt ggtcttactt taacttcttg 3960
 cctttgtttac cccagaacc atgcagacat tgaaatgttg tgtgctgtgt tgtgtgtgtg 4020
 tgtgtgtgtg tgtgtgttca tataacagga ggacaggaaa ggttaaggacc cagaacaatg 4080
 aagacttatt gaaatgtggg ggggtgtgtg gtgtgtgtgt gttcatagaa caggagnaca 4140
 ggaaaggtaa tgaccatcca tgggaagatga aggggtagta cttagccgga cgcgtgggtc 4200
 ga 4202

<210> 57
 <211> 854
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (831)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (839)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (844)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (851)

<223> n equals a,t,g, or c

<400> 57

cgaaattact	cctcactaaa	gttgaacaaa	agctggagct	cgcgcgccctg	caggtcgaca	60
ctagtggatc	caaagaattc	ggcacgagcg	ggatcccggc	aaaatgcaga	ttccccaaaa	120
tttttgraaa	tacagatgac	acttatgaag	agctccatctt	aatcgtttat	aaggttaacaa	180
ctgttttccct	tccagcgcta	atgattgtgc	tgaagtggat	cttcccttga	tgtgtacacg	240
agtgcattgtg	caaacctctt	aaatgtttct	tggaaaagat	attggaagtt	ctgattatgg	300
taaaactcaa	aatgggtgtt	cttccagcgt	aataagttaa	ttttcagctc	cttttaacaa	360
gtttctgttat	tagtgaaga	ggaactgttt	aagatttgtga	tttataaacg	tgtgaagtct	420
cacgtgctct	caaaccaaa	gctgtcagag	gttgggtgctg	cctgttctcg	aaatggctct	480
ggatggggggc	cgtagccacg	tgtctgtgca	tatgctgctt	ttgctctgat	tttaaagctg	540
taggcttgct	aattccataa	ggatcgatat	ttgtttctgt	caggacatgg	tcttgttaagg	600
atatgtactc	aggttctgtt	tctaactaaa	ggcagttttt	gattcaagaa	agaagacgga	660
gcattgtgcac	gtgtttctcc	tctttcctgc	ctgaggctgt	ggagaagtct	tcatttataa	720
aggctcagaa	atgatgccgt	ggggggamcag	gaaggagcgg	agaactagtc	tcgagagtac	780
ttctagagcg	gccgcggggc	catcgatttt	ccacccgggt	gggggtaccag	ntaagtgtn	840
aagnattccc	ntta					854

<210> 58

<211> 1455

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (40)

<223> n equals a,t,g, or c

<400> 58

ggcanagctg	ggatgggggtc	agcaccacaga	agccagccnn	ctctgacagc	ttcctctttg	60
gccaagccct	gcctctgtac	agcctcgagt	ggacagccag	agggcacgag	ggagcccaga	120
gcccagatg	gagccccagc	tggggcctga	ggctgcccgc	ctccgcccctg	gctggctggc	180
cctgctgctg	tgggtctcag	ccctgagctg	ttctttctcc	ttgccagctt	cttccctttc	240
ttctctggty	ccccaaagtca	gaaccagcta	caatttttga	aggactttcc	tgggtcttga	300
taaatgcaat	gcctgcatcg	ggacatctat	ttgcaagaag	ttcttttaaag	aagaaataag	360
atctgacaac	tggctggctt	cccaccttgg	actgcctccc	gattccttgc	tttctttatcc	420
tgcaaattac	tcagatgatt	ccaaaatctg	gcgcccctgtg	gagatcttta	gactggctcag	480
caaatatcaa	aacgagatct	cagacaggaa	aatctgtgcc	tctgcatcag	ccccaaagac	540
ctgcagcatt	gagcgtgtcc	tgcggaaaac	agagaggttc	cagaaatggc	tgcaggccaa	600
gcgcctcagc	ccggaccttg	tgcaggactg	tcaccagggg	cagagagaac	taaagtctct	660
gtgtatgctg	agataacacc	agtgaataag	cctggcatgg	agcccagcac	tgagaacttc	720
cagaaagtgt	tagccttctc	ccaactgtgt	tataccaacc	acattttcaa	atagtaatca	780
ttaaagaggc	ttctgcatca	aaccttcaca	tgcagctccc	atgccacctc	cagaattcac	840
caacacacag	gccaccacgc	aacagggtacc	tttgcacaat	attttttgat	gacaattcaa	900
agccccggct	ctttcccacc	acactgtgg	cccctagatg	gggctgttgc	tgagcccacc	960
ccaatcccag	atgtgatccc	ccctgtgatc	tacttccctgg	caagattcct	ccagtcctgg	1020
acaggctctc	cctatgagat	agaacctgat	aaggagctag	ggcaattctg	acaacattac	1080

205210-88645001

```

caaaggccca cataacttct aaatttttggc ctgggtctgaa ggaaaacctg ttctttgccc 1140
agtgatggat gaactctctt atctctggct tctagagggg aaaaaaagca tacctctttt 1200
acttttttaag taactccatc agagtcatga aatcacctgt caagactatc tatcttttat 1260
gtttccattc tggtaagaac tctttaaatg aggacactgc tgattgctgg tgatgttttt 1320
tgagcaaaaca ctggggggta tggatgaaag ccaatcgagc gtcaaatgac tccttggggg 1380
agctacttct cctctattca gatttcta aaatcttcca agatgaaagc aaaaaaaaaa 1440
aaaaaaaaaa aaaaaa 1455

```

```

<210> 59
<211> 593
<212> DNA
<213> Homo sapiens

```

```

<400> 59
ccacgcttcc ggagctctta ctctccagc aacgctcttc agtacataat aagcttaact 60
gataaacaga atatttagaa aggtgagact tgggcttacc attgggttta aatcataggg 120
acctagggcg aggggttcagg gcttctctgg agcagatatt gtcaagttca tggccttagg 180
tagcatgcat ctgggtcttaa ccttgattgt agcaaaagtt ctgagaggag ctgagccctg 240
ttgtggccca ttaaagaaca gggctctcag gccctgcccg ctctctgtcc actgccccct 300
ccccatcccc agcccagccg aggggaatccc gtgggttgct tacctacctt taaggtgggt 360
tataagctgc tgtcctggcc actgcattca aattccaatg tgtacttcat agtgtaaaaa 420
tttatattat tgtgaggttt ttgtctttt ttttttttt ttattattgt gtatatctgt 480
gtatctactt taacttccag aaataaacgt tatataggaa ccgacaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 593

```

```

<210> 60
<211> 496
<212> DNA
<213> Homo sapiens

```

```

<400> 60
aattcgggctt tggagcggcc gcccgggcag gtctgtcttt ttgcttataa ttgacaacat 60
gtgcaaaaat accaaatttg tgtcctgtgc agtatgaaga attcagtga ttttcattaa 120
tgtattagct tgttttgctc tctgttcata tatggctcta ttcttagaaa tataatttga 180
atgtgatctt tcaatagtct gaatatttca caaattatag ctatgtcttg tgaaaataac 240
ctcaaaaaga aaaatcagac tctgttgtct tacttgatat ttcttgcctt agtaatgtac 300
ttgacattta tgttcctaag cagtgttaagt accagttaga tttctctgtc aaactcaatg 360
atcatttagt acttttgtct tctcccatgt gcttgaagga aaaataaagt gtcactaccg 420
tattttctgt ttcatcaaa aaataaaaaa aatttataaa aaaaaaaaaa aaaaaaaaaa 480
aarrgggsgg cccccc 496

```

```

<210> 61
<211> 1292
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (71)
<223> n equals a, t, g, or c

```

```

<220>
<221> SITE
<222> (697)
<223> n equals a, t, g, or c

```

<220>
 <221> SITE
 <222> (1280)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1287)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1291)
 <223> n equals a,t,g, or c

<400> 61

aaacctcttc	tataggtaaa	gctgggtacgc	ctgcaggtac	cggtccggaa	ttccccgggtc	60
gacccacgcy	ncgggaaaga	ggaaacatag	aggtgccaaa	ggaacaaaga	cataatgatg	120
tcattccaagc	caacaagcca	tgctgaagta	aatgaaacca	tacccaaccc	ttacccacca	180
agcagcttta	tggctcctgg	atctcaacag	cctctgggtt	caatcaactt	agaaaaaccaa	240
gctcagggty	cttagcgtgc	tcagccctac	ggcatcacat	ctccgggaat	ctttgctagc	300
agtcaaccgg	grcaaggaaa	tatacaaatg	ataaatccaa	gtgtgggaac	agcagtaatg	360
aacttttaaag	aagaagcaaa	ggcactaggg	gtgatccaga	tcattggttg	attgatgcac	420
attgggttttg	gaattgtttt	gtgtttaata	tccttctctt	ttagagaagt	attaggtttt	480
gcctctactg	ctgktatttg	tggataccca	tcctggggty	gcctttctct	tattatctct	540
ggctctctct	ctgtgtcagc	atccaaggag	ctttcccggt	gtctgggtgaa	agggcagcctg	600
ggaatgaaca	ttggtaggtc	tatcttggcc	ttcattggag	tgattctgct	gctgggtggat	660
atgtgcatca	atgggggtarc	tggccaagac	tactggmccg	tgctttcttg	aaaaggcatt	720
tcagccacgc	tgatgatctt	ctccytcttg	gagttctctg	tagcttctgc	cacagcccat	780
tttgccaacc	aagcaaacac	cacaaccaat	atgtctgtcc	tggttattcc	aaatatgtat	840
gaaagcaacc	ctgkgacacc	agcgtcttct	tcagctctct	ccagatgcaa	caactactca	900
gctaattgccc	ctaaaagaaa	aaggggtatc	agtctaattc	catggagaaa	aactacttgc	960
aaaaacttct	taagaagatg	tctttttattg	tctacaatga	tttctagtct	ttaaaaactg	1020
tgtttgagat	ttgttttttag	gttgggtcgt	aatgatggct	gtatctccct	tcactgtctc	1080
ttcctacatt	accactacta	catgctggca	aaggtgaagg	atcagaggac	tgaaaaatga	1140
ttctgcaact	ctcttaaaagt	tagaaatgtt	tctgttcata	ttactttttc	cttaataaaa	1200
tgtcattaga	aaçaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaagggc	ggccgctcta	1260
gaggatccaa	gcttacgtan	gcgtgcntgc	na			1292

<210> 62
 <211> 398
 <212> DNA
 <213> Homo sapiens

<400> 62

cccccttggc	ccccccatta	atgccatggg	ttgggaggag	ckkgatcccc	tgaaccccat	60
acttaacctc	tactgcccms	ggaaatgccc	tacattatct	ttccctaatt	ggaagtataa	120
ttagagtgat	gttggtaggg	tagaaaaaga	gggagtcact	tgatgctttc	aggttaataca	180
gagctatggg	tgctacaggc	ttgtctttct	aagtgcata	ttcttatcta	attctcagat	240
cagggttttg	aagmtwtggg	ggtcttttta	gatttttaatc	cctactttct	ttatgggtaca	300
aatatgtaca	aaagaaaaag	gtcttatatt	cttttacaca	aattcataaa	taaattttga	360
actccttctg	tttaaaaaaa	aaaaaaaaaa	aaaaaaaa			398

<210> 63
 <211> 1202
 <212> DNA
 <213> Homo sapiens

```
<220>  
<221> SITE  
<222> (1200)  
<223> n equals a,t,g, or c
```

```
<210> 64
<211> 1517
<212> DNA
<213> Homo sapiens
```

<400> 64						
gattacgcca	actcgaattt	aaccctcact	aaaggggaaca	aaagctggag	ctccaccgcg	60
gtggcgcccg	ctctagaact	agtggatccc	ccgggctgca	ggaattcggc	acgagggagc	120
ccagagccca	agatggagcc	ccagctgggg	cctgaggctg	ccgccctccg	ccctggctgg	180
ctggccctgc	tgcctgtgggt	ctcagccctg	agctgttctt	tctccttgcc	agcttcttcc	240
ctttcttctc	tgggtgcccc	agtcagaacc	agctacaatt	ttggaaggac	tttctctcgt	300
cttgataaaat	gcaaatgcctg	catcgggaca	tctatttgca	agaagtctct	taaaagaaaga	360
aataagatct	gacaactggc	tggcttccca	ccttgggact	gcctcccgat	tcccttgcct	420
tcttatcctg	gcaaaattact	caggatgatt	ccaaaaatctg	gcgccctctg	gagatcctta	480

```

gactgggtcag caaatatcaa aacgagatct cagacaggaa aatctgtgcc tctgcatcag 540
ccccaaagac ctgcagcatt gagcgtgtcc tgcggaaaac agagagggttc cagaaatggc 600
tgcaggccaa gcgcctcacg ccggacctgg tgcaggactg tcaccagggc cagagagaac 660
taaaagtccct gtgtatgctg gagataaacac cagtgaaaaa gccttggcat ggagccccag 720
cactgagaac ttccagaaaag tgttagcctt ctcccaactg tgttatacca accacatttt 780
caaatagtaa tcattaaaga ggcttctgca tcaaaccttc acatgcagct cccatgccac 840
cctccagaat tcaccaacac acaggcccac cagcaacagg cttacctttt gcacaatatt 900
ttttgatgac aatccaaaag cccggctctt tcccaccaca ctgtgggtccc ctatgatgggg 960
ctgttgcctga gccaccccc atcccagatg tgatccccct gtgatctact tctgggccaa 1020
gattctccag tctggacagg tcttccccta tgagatagaa cctgataagg agctagggca 1080
attctgacaa cattaccaaa ggcccacata acttctaaat tttgggtctgg tctgaaggaa 1140
aacctgttct tgccttagtg atggatgaac tctcttatct ctggcttcta gagggaaaaa 1200
aaagcatacc tcttttactt ttaagtacc tccatcagag tcatgaaatc acctgtcaag 1260
actatctatc tttcatgttt ccattctggt aagaactctt taaatgagga cactgctgat 1320
tgctgggtgat gttttttgag caaacactcg ggggtatgga tgaaagccaa tcgcagggtca 1380
aatgactcct tggggaagct acttctcttc tattcagatt tcactaaaat ctccaagat 1440
gaaagcaaaa aaaaaaaaaa aaaaaaaaaa actcgagggg gggcccgtac ccaattcgcc 1500
ctatagttag tctgatt 1517

```

```

<210> 65
<211> 526
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (66)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (106)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (484)
<223> n equals a,t,g, or c

```

```

<400> 65
ctctgacagc ttctctctttg gccaaagccct gcctctgtac agcctcgagt ggacagccag 60
aggctcnagac tggagcccag agcccaaagat ggagccccag ctgggmcctg aggcctgcgc 120
cctccgcccct ggctggctgg ccctgctgct gtgggtctca gccctgagct gttctttctc 180
cttgccagct tcttcccttt ctctctctggg gcccgaagtc agaaccagct acaattttgg 240
aaggactttc ctgggtcttg ataaatgcaa tgcctgcacg gggacatcta tttgcaagaa 300
gttcttttaa gaagaaatga gatctgacaa ctggctggct tcccaccttg ggactgcctc 360
ccgattccct ttgcttctt atccttgcaa attactccar atgatttcca aaatctggsg 420
sccttggtga ratctcttaa ctggtcagca awtwtcaaac gaaatctcca aacaggaaat 480
cttntgcctc ctgcatccac ccccaaagaa cttgcacatt gacgtt 526

```

```

<210> 66
<211> 664
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE

```

<222> (31)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (63)
 <223> n equals a,t,g, or c

<400> 66
 caggctctca atacggactc actcataggg naaagctggg acgcctgcag gtaccgggtcc 60
 ggnaattccc gggtcgaccc acgcgtcgcr gagctcttac ttctccagca acrtctttca 120
 gtacataata agcttaactg ataaacagaa tatttagaaa ggtgagactt gggcttacca 180
 ttgggtttta atcatagggg cctagggcga gggttcaggg cttctctgga gcagatattg 240
 tcaagttcat ggccttaggt agcatgtatc tgggtcttaac tctgattgta gcaaaagttc 300
 tgagaggagc tgagccctgt tgtggcccat taaagaacag ggtcctcagg cctgccccgc 360
 ttctctgtcc ctgccccctc cccatcccca gccagccga ggaatcccg tgggttgctt 420
 acctacctat aaggtgggtt ataagctgct gtccctggcca ctgcattcaa attccaatgt 480
 gtacttcata gtgtaaaaat ttatattatt gtgaggtttt ttgtcttttt tttttttttt 540
 ttttttggtt cattgctgta tctactttaa cttccagaaa taaacgttat atrggaaaaa 600
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660
 aaaa 664

<210> 67
 <211> 156
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (156)
 <223> Xaa equals stop translation

<400> 67
 Met Arg Leu Trp Lys Ala Val Val Val Thr Leu Ala Phe Met Ser Val
 1 5 10 15
 Asp Ile Cys Val Thr Thr Ala Ile Tyr Val Phe Ser His Leu Asp Arg
 20 25 30
 Ser Leu Leu Glu Asp Ile Arg His Phe Asn Ile Phe Asp Ser Val Leu
 35 40 45
 Asp Leu Trp Ala Ala Cys Leu Tyr Arg Ser Cys Leu Leu Gly Ser
 50 55 60
 His His Trp Cys Gly Gln Glu Gln Cys Ala Gly Ala Pro Ala Ala Ala
 65 70 75 80
 Gly Leu Val Ala Gly His His Pro Arg Val Pro Leu Arg Gly His Leu
 85 90 95
 Cys His Gly Glu Ala Ala Ala Leu Leu Arg Gly Ala Gln Ala His Pro
 100 105 110
 Gly Pro Leu Val Leu Gly Pro Val Arg Val Asp Val His Phe Thr Arg
 115 120 125
 Arg Ile Leu Pro Ala Leu Val Ala Ala Val His Arg Ala Ala Arg His

2054988-013502

130

135

140

Pro Gly Pro Gly Ala Arg Gly Gly His Arg Gly Xaa
 145 150 155

<210> 68

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals stop translation

<400> 68

Met Ala Ala Arg His Leu Pro Gly Phe His Thr Tyr Thr Asn Leu Leu
 1 5 10 15

Phe Leu Leu Leu Pro Ser Leu Leu Met Gly Tyr Ser Glu Ser Pro Pro
 20 25 30

Pro Ile Thr Asp Ser Trp Ala Pro Phe Ile Ser Leu Thr His His Val
 35 40 45

Leu Ser Gln Ser Gln Ser Pro Leu Ser Ser Asn Cys Trp Ile Cys Leu
 50 55 60

Ser Thr His Thr Gln Xaa
 65 70

<210> 69

<211> 502

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (502)

<223> Xaa equals stop translation

<400> 69

Met Trp Lys Leu Trp Arg Ala Glu Glu Gly Ala Ala Ala Leu Gly Gly
 1 5 10 15

Ala Leu Phe Leu Leu Leu Phe Ala Leu Gly Val Arg Gln Leu Leu Lys
 20 25 30

Gln Arg Arg Pro Met Gly Phe Pro Pro Gly Pro Pro Gly Leu Pro Phe
 35 40 45

Ile Gly Asn Ile Tyr Ser Leu Ala Ala Ser Ser Glu Leu Pro His Val
 50 55 60

Tyr Met Arg Lys Gln Ser Gln Val Tyr Gly Glu Ile Phe Ser Leu Asp
 65 70 75 80

205210" 8854500T

Leu Gly Gly Ile Ser Thr Val Val Leu Asn Gly Tyr Asp Val Val Lys
 85 90 95
 Glu Cys Leu Val His Gln Ser Glu Ile Phe Ala Asp Arg Pro Cys Leu
 100 105 110
 Pro Leu Phe Met Lys Met Thr Lys Met Gly Gly Leu Leu Asn Ser Arg
 115 120 125
 Tyr Gly Arg Gly Trp Val Asp His Arg Arg Leu Ala Val Asn Ser Phe
 130 135 140
 Arg Tyr Phe Gly Tyr Gly Gln Lys Ser Phe Glu Ser Lys Ile Leu Glu
 145 150 155 160
 Glu Thr Lys Phe Phe Asn Asp Ala Ile Glu Thr Tyr Lys Gly Arg Pro
 165 170 175
 Phe Asp Phe Lys Gln Leu Ile Thr Asn Ala Val Ser Asn Ile Thr Asn
 180 185 190
 Leu Ile Ile Phe Gly Glu Arg Phe Thr Tyr Glu Asp Thr Asp Phe Gln
 195 200 205
 His Met Ile Glu Leu Phe Ser Glu Asn Val Glu Leu Ala Ala Ser Ala
 210 215 220
 Ser Val Phe Leu Tyr Asn Ala Phe Pro Trp Ile Gly Ile Leu Pro Phe
 225 230 235 240
 Gly Lys His Gln Gln Leu Phe Arg Asn Ala Ala Val Val Tyr Asp Phe
 245 250 255
 Leu Ser Arg Leu Ile Glu Lys Ala Ser Val Asn Arg Lys Pro Gln Leu
 260 265 270
 Pro Gln His Phe Val Asp Ala Tyr Leu Asp Glu Met Asp Gln Gly Lys
 275 280 285
 Asn Asp Pro Ser Ser Thr Phe Ser Lys Glu Asn Leu Ile Phe Ser Val
 290 295 300
 Gly Glu Leu Ile Ile Ala Gly Thr Glu Thr Thr Thr Asn Val Leu Arg
 305 310 315 320
 Trp Ala Ile Leu Phe Met Ala Leu Tyr Pro Asn Ile Gln Gly Gln Val
 325 330 335
 Gln Lys Glu Ile Asp Leu Ile Met Gly Pro Asn Gly Lys Pro Ser Trp
 340 345 350
 Asp Asp Lys Cys Lys Met Pro Tyr Thr Glu Ala Val Leu His Glu Val
 355 360 365
 Leu Arg Phe Cys Asn Ile Val Pro Leu Gly Ile Phe His Ala Thr Ser
 370 375 380
 Glu Asp Ala Val Val Arg Gly Tyr Ser Ile Pro Lys Gly Thr Thr Val
 385 390 395 400

10054988 012502
 205270 8864507

Ile Thr Asn Leu Tyr Ser Val His Phe Asp Glu Lys Tyr Trp Arg Asp
405 410 415

Pro Glu Val Phe His Pro Glu Arg Phe Leu Asp Ser Ser Gly Tyr Phe
420 425 430

Ala Lys Lys Glu Ala Leu Val Pro Phe Ser Leu Gly Arg Arg His Cys
435 440 445

Leu Gly Glu His Leu Ala Arg Met Glu Met Phe Leu Phe Phe Thr Ala
450 455 460

Leu Leu Gln Arg Phe His Leu His Phe Pro His Glu Leu Val Pro Asp
465 470 475 480

Leu Lys Pro Arg Leu Gly Met Thr Leu Gln Pro Gln Pro Tyr Leu Ile
485 490 495

Cys Ala Glu Arg Arg Xaa
500

<210> 70
<211> 139
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (164)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (139)
<223> Xaa equals stop translation

<400> 70
Met Arg Pro Ala Phe Ala Leu Cys Leu Leu Trp Gln Ala Leu Trp Pro
1 5 10 15

Gly Pro Gly Gly Gly Glu His Pro Thr Ala Asp Arg Ala Gly Cys Ser
20 25 30

Ala Ser Gly Ala Cys Tyr Ser Leu His His Ala Thr Met Lys Arg Gln
35 40 45

Ala Ala Glu Glu Ala Cys Ile Leu Arg Gly Gly Ala Leu Ser Thr Val

205210 88645001

50

55

60

Arg Ala Gly Ala Glu Leu Arg Ala Val Leu Ala Leu Leu Arg Ala Gly
 65 70 75 80
 Pro Gly Pro Gly Xaa Gly Ser Lys Asp Leu Leu Phe Trp Val Ala Leu
 85 90 95
 Glu Arg Arg Arg Ser His Cys Xaa Leu Glu Asn Glu Pro Leu Arg Gly
 100 105 110
 Phe Ser Trp Leu Ser Ser Asp Pro Gly Gly Leu Glu Ser Asp Thr Leu
 115 120 125
 Gln Trp Val Glu Glu Pro Gln Arg Ser Cys Thr Ala Arg Arg Trp Val
 130 135 140
 Leu Pro Gly His Arg Trp Gly Arg Ala Arg Ser Trp Lys Glu Met Arg
 145 150 155 160
 Cys His Leu Xaa Ala Asn Ala Thr Cys Ala Ser Thr Ser Leu Arg Ser
 165 170 175
 Cys Val Leu Arg Arg Ala Pro Gly Pro Pro Leu Thr Xaa
 180 185
 <210> 71
 <211> 486
 <212> PRT
 <213> Homo sapiens
 <400> 71
 Met Gln Pro Ser Gly Leu Glu Gly Pro Gly Thr Phe Gly Arg Trp Pro
 1 5 10 15
 Leu Leu Ser Leu Leu Leu Leu Leu Leu Leu Leu Gln Pro Val Thr Cys
 20 25 30
 Ala Tyr Thr Thr Pro Gly Pro Pro Arg Ala Leu Thr Thr Leu Gly Ala
 35 40 45
 Pro Arg Ala His Thr Met Pro Gly Thr Tyr Ala Pro Ser Thr Thr Leu
 50 55 60
 Ser Ser Pro Ser Thr Gln Gly Leu Gln Glu Gln Ala Arg Ala Leu Met
 65 70 75 80
 Arg Asp Phe Pro Leu Val Asp Gly His Asn Asp Leu Pro Leu Val Leu
 85 90 95
 Arg Gln Val Tyr Gln Lys Gly Leu Gln Asp Val Asn Leu Arg Asn Phe
 100 105 110
 Ser Tyr Gly Gln Thr Ser Leu Asp Arg Leu Arg Asp Gly Leu Val Gly
 115 120 125
 Ala Gln Phe Trp Ser Ala Tyr Val Pro Cys Gln Thr Gln Asp Arg Asp
 130 135 140

20254988.012502

Ala Leu Arg Leu Thr Leu Glu Gln Ile Asp Leu Ile Arg Arg Met Cys
145 150 155 160

Ala Ser Tyr Ser Glu Leu Glu Leu Val Thr Ser Ala Lys Ala Leu Asn
165 170 175

Asp Thr Gln Lys Leu Ala Cys Leu Ile Gly Val Glu Gly Gly His Ser
180 185 190

Leu Asp Asn Ser Leu Ser Ile Leu Arg Thr Phe Tyr Met Leu Gly Val
195 200 205

Arg Tyr Leu Thr Leu Thr His Thr Cys Asn Thr Pro Trp Ala Glu Ser
210 215 220

Ser Ala Lys Gly Val His Ser Phe Tyr Asn Asn Ile Ser Gly Leu Thr
225 230 235 240

Asp Phe Gly Glu Lys Val Val Ala Glu Met Asn Arg Leu Gly Met Met
245 250 255

Val Asp Leu Ser His Val Ser Asp Ala Val Ala Arg Arg Ala Leu Glu
260 265 270

Val Ser Gln Ala Pro Val Ile Phe Ser His Ser Ala Ala Arg Gly Val
275 280 285

Cys Asn Ser Ala Arg Asn Val Pro Asp Asp Ile Leu Gln Leu Leu Lys
290 295 300

Lys Asn Gly Gly Val Val Met Val Ser Leu Ser Met Gly Val Ile Gln
305 310 315 320

Cys Asn Pro Ser Ala Asn Val Ser Thr Val Ala Asp His Phe Asp His
325 330 335

Ile Lys Ala Val Ile Gly Ser Lys Phe Ile Gly Ile Gly Gly Asp Tyr
340 345 350

Asp Gly Ala Gly Lys Phe Pro Gln Gly Leu Glu Asp Val Ser Thr Tyr
355 360 365

Pro Val Leu Ile Glu Glu Leu Leu Ser Arg Gly Trp Ser Glu Glu Glu
370 375 380

Leu Gln Gly Val Leu Arg Gly Asn Leu Leu Arg Val Phe Arg Gln Val
385 390 395 400

Glu Lys Val Gln Glu Glu Asn Lys Trp Gln Ser Pro Leu Glu Asp Lys
405 410 415

Phe Pro Asp Glu Gln Leu Ser Ser Ser Cys His Ser Asp Leu Ser Arg
420 425 430

Leu Arg Gln Arg Gln Ser Leu Thr Ser Gly Gln Glu Leu Thr Glu Ile
435 440 445

Pro Ile His Trp Thr Ala Lys Leu Pro Ala Lys Trp Ser Val Ser Glu

205210" 88645007

450

455

460

Ser Ser Pro His Met Ala Pro Val Leu Ala Val Val Ala Thr Phe Pro
 465 470 475 480

Val Leu Ile Leu Trp Leu
 485

<210> 72

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Kaa equals stop translation

<400> 72

Met Val Ala Ser Gly Trp Leu Leu Leu Ala Gln Ala Ser Phe Leu Pro
 1 5 10 15

Leu Ala Pro Pro Gly Ala Leu Gly Ala Gly Cys Trp Met Asp Gly Arg
 20 25 30

Pro Leu Ala Pro Pro Gly Ala Leu Gly Ala Gly Cys Trp Met Gly Gly
 35 40 45

Arg Pro Leu Ala Pro Pro Gly Ala Leu Gly Ala Gly Cys Trp Met Gly
 50 55 60

Gly Arg His Gly Ala Pro Leu Leu Gly Cys Leu Cys Pro Ser Gly Leu
 65 70 75 80

Cys Ser Ser Tyr Val Cys Leu Kaa
 85

<210> 73

<211> 299

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (167)

<223> Kaa equals any of the naturally occurring L-amino acids

<400> 73

Met Met Ser Ser Lys Pro Thr Ser His Ala Glu Val Asn Glu Thr Ile
 1 5 10 15

Pro Asn Pro Tyr Pro Pro Ser Ser Phe Met Ala Pro Gly Phe Gln Gln
 20 25 30

Pro Leu Gly Ser Ile Asn Leu Glu Asn Gln Ala Gln Gly Ala Gln Arg
 35 40 45

1054988.012502

Ala Gln Pro Tyr Gly Ile Thr Ser Pro Gly Ile Phe Ala Ser Ser Gln
 50 55 60
 Pro Gly Gln Gly Asn Ile Gln Met Ile Asn Pro Ser Val Gly Thr Ala
 65 70 75 80
 Val Met Asn Phe Lys Glu Glu Ala Lys Ala Leu Gly Val Ile Gln Ile
 85 90 95
 Met Val Gly Leu Met His Ile Gly Phe Gly Ile Val Leu Cys Leu Ile
 100 105 110
 Ser Phe Ser Phe Arg Glu Val Leu Gly Phe Ala Ser Thr Ala Val Ile
 115 120 125
 Gly Gly Tyr Pro Phe Trp Gly Gly Leu Ser Phe Ile Ile Ser Gly Ser
 130 135 140
 Leu Ser Val Ser Ala Ser Lys Glu Leu Ser Arg Cys Leu Val Lys Gly
 145 150 155 160
 Ser Leu Gly Met Asn Ile Xaa Ser Ser Ile Leu Ala Phe Ile Gly Val
 165 170 175
 Ile Leu Leu Leu Val Asp Met Cys Ile Asn Gly Val Ala Gly Gln Asp
 180 185 190
 Tyr Trp Ala Val Leu Ser Gly Lys Gly Ile Ser Ala Thr Leu Met Ile
 195 200 205
 Phe Ser Leu Leu Glu Phe Phe Val Ala Cys Ala Thr Ala His Phe Ala
 210 215 220
 Asn Gln Ala Asn Thr Thr Thr Asn Met Ser Val Leu Val Ile Pro Asn
 225 230 235 240
 Met Tyr Glu Ser Asn Pro Val Thr Pro Ala Ser Ser Ser Ala Pro Pro
 245 250 255
 Arg Cys Asn Asn Tyr Ser Ala Asn Ala Pro Lys Arg Lys Arg Gly Ile
 260 265 270
 Ser Leu Ile Ser Trp Arg Lys Thr Thr Cys Lys Asn Phe Leu Arg Arg
 275 280 285
 Cys Leu Leu Leu Ser Thr Met Ile Ser Ser Leu
 290 295

<210> 74

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals stop translation

2054988.012502
 2054988.012502

<400> 74

Met Ala Leu His Pro Gly Ser Ser His Leu Leu Val Ala Val Pro Val
 1 5 10 15

Ser Trp Phe Leu Phe Cys Ile Pro Gly Ile Ser Phe Ile Thr Leu Ser
 20 25 30

Trp Ser Tyr Gln Glu Ser Pro Val Ser Phe Leu Ser Val Glu Gly Xaa
 35 40 45

<210> 75

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals stop translation

<400> 75

Met Tyr Ser Leu Phe Leu Thr Cys Ile Phe Pro Phe Thr Leu Cys His
 1 5 10 15

Lys Lys Ile Leu Met Val Ile His Asp Phe Thr Gly Pro Val His Val
 20 25 30

Phe Pro Glu Lys Thr Val Leu Glu Trp Asn Tyr Xaa
 35 40

<210> 76

<211> 140

<212> PRT

<213> Homo sapiens

<400> 76

Met Cys Ala Met Tyr Leu Met Ile Lys Ala Phe Leu Pro Lys Met Leu
 1 5 10 15

Ala Gln Lys Ser Gly Asn Ile Ile Asn Met Ser Ser Val Ala Ser Ser
 20 25 30

Val Lys Gly Val Val Asn Arg Cys Val Tyr Ser Thr Thr Lys Ala Ala
 35 40 45

Val Ile Gly Leu Thr Lys Ser Val Ala Ala Asp Phe Ile Gln Gln Gly
 50 55 60

Ile Arg Cys Asn Cys Val Cys Pro Gly Thr Val Asp Thr Pro Ser Leu
 65 70 75 80

Gln Glu Arg Ile Gln Ala Arg Gly Asn Pro Glu Glu Ala Arg Asn Asp
 85 90 95

10054988 012500
 205270" 8864500F

Phe Leu Lys Arg Gln Lys Thr Gly Arg Phe Ala Thr Ala Glu Glu Ile
100 105 110

Ala Met Leu Cys Val Tyr Leu Ala Ser Asp Glu Ser Ala Tyr Val Thr
115 120 125

Gly Asn Pro Val Ile Ile Asp Gly Gly Trp Ser Leu
130 135 140

<210> 77

<211> 153

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (153)

<223> Xaa equals stop translation

<400> 77

Met Leu Val Val Cys Leu Leu Leu Ala Thr Gly Phe Cys Leu Phe Arg
1 5 10 15

Gly Leu Ile Ala Leu Asp Cys Pro Ser Glu Leu Cys Arg Leu Tyr Thr
20 25 30

Gln Phe Gln Glu Pro Tyr Leu Lys Asp Pro Ala Ala Tyr Pro Lys Ile
35 40 45

Gln Met Leu Ala Tyr Met Phe Tyr Ser Val Pro Tyr Phe Val Thr Ala
50 55 60

Leu Tyr Gly Leu Val Val Pro Gly Cys Ser Trp Met Pro Asp Ile Thr
65 70 75 80

Leu Ile His Ala Gly Gly Leu Ala Gln Ala Gln Phe Ser His Ile Gly
85 90 95

Ala Ser Leu His Ala Arg Thr Ala Tyr Val Tyr Arg Val Pro Glu Glu
100 105 110

Ala Lys Ile Leu Phe Leu Ala Leu Asn Ile Ala Tyr Gly Val Leu Pro
115 120 125

Gln Leu Leu Ala Tyr Arg Cys Ile Tyr Lys Pro Glu Phe Phe Ile Lys
130 135 140

Thr Lys Ala Glu Glu Lys Val Glu Xaa
145 150

<210> 78

<211> 180

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

205210"8264500F

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals stop translation

<400> 78

Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu
1 5 10 15

Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala
20 25 30

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Xaa
35 40 45

Pro Val Ser Ser Ala Ile Pro Arg Arg Val Cys Trp Ser Leu Leu Ser
50 55 60

Pro Arg Pro Thr Arg Pro Pro Gly Pro Ala Pro Cys Pro Leu Pro Ser
65 70 75 80

Ala Gly Arg Gly Ala Ala Gly Leu Gly Pro Leu Ala Gln Gln Pro Val
85 90 95

Ser Pro Ala Pro Ala Ser Pro Met Ala Pro Cys Ser Pro Arg Gly Phe
100 105 110

Pro Pro Ala His Gly Val Glu Pro Glu Ile Leu Ala Thr Met Pro Val
115 120 125

Leu Thr Ser His Pro Pro Thr Pro Ser Pro Cys Ser Leu Gly Thr Cys
130 135 140

Arg Leu Leu Ser Ser Leu Cys Ala Phe Val Pro Gly Gly Leu Thr Leu
145 150 155 160

Leu Ser Leu Ala Gly Leu Gly Gly Pro Val Gln Ala Pro Ala Ala Pro
165 170 175

Pro Ser Leu Xaa
180

<210> 79

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals stop translation

<400> 79

Met Leu Met Gly Ser Ile Leu Tyr Val Leu Phe Cys Val Trp Leu Leu
1 5 10 15

2054988-01260

Gln Cys Ile Phe Glu Ile Tyr Pro His Cys Cys Val Tyr Pro Lys Cys
20 25 30

Val Leu Phe His Cys Gln Ile Met Phe Cys Tyr Met Asn Ile Leu Gln
35 40 45

Asn Ile Cys Leu Phe Ile Tyr Trp Trp Ile Phe Ala Phe Val Pro Val
50 55 60

Trp Gly Tyr Tyr Glu Xaa
65 70

<210> 80

<211> 191

<212> .PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (191)

<223> Xaa equals stop translation

<400> 80

Met Arg Ala Cys Pro Trp Ala Gln Val Pro Leu Tyr Leu Leu Leu Asp
1 5 10 15

Gly His Leu Ala Val Ser Gln Ala Gly Val Met Ala Gly Val Ser Gly
20 25 30

Gly Arg Gly Gly Arg Arg Leu Arg Gly Pro Ile Thr Ser Arg Val Ile
35 40 45

Thr Ser Cys Gln Gln Pro Gly Val Gly Val Trp Val Ser Leu Arg Pro
50 55 60

Glu Leu Leu Asn Leu Glu Ser Leu Gly Val Ala Ala Lys Gly Val Tyr
65 70 75 80

Asp Lys His Val Ser Leu Asp Ile Ser Gly Glu Arg Ser Gly Ala Leu
85 90 95

Val Thr Phe Ser Lys Gly Cys Trp Ala Ser Glu Gln Ser Pro Pro Met
100 105 110

Ser Gln Pro Leu Gln Gly Pro Ser Leu Ser Leu His Pro Arg Pro Ser
115 120 125

Ala Ala Leu Val Met Ser Arg Arg Lys Val Leu Gly Cys Ala Gln Ser
130 135 140

Gln Glu Ser Lys Ile Cys Gln Ala Lys Ala Pro Gly Lys Ser Arg Arg
145 150 155 160

Ser Leu Gly Trp Pro Pro Gly Cys Gly Ala Ala Arg Ala Lys Thr Val
165 170 175

Asn Thr Ala Leu Gln Leu Ser Glu Pro Gln Phe Ser Asn Leu Xaa

205210 8054933 012502

180

135

190

<210> 81
 <211> 166
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (166)
 <223> Xaa equals stop translation

<400> 81
 Met Cys Leu Ser Leu Leu Ala Ala Leu Ala Cys Ser Ala Gly Asp Thr...
 1 5 10 15
 Trp Ala Ser Glu Val Gly Pro Val Leu Ser Lys Ser Ser Pro Arg Leu
 20 25 30
 Ile Thr Thr Trp Glu Lys Val Pro Val Gly Thr Asn Gly Gly Val Thr
 35 40 45
 Val Val Gly Leu Val Ser Ser Leu Leu Gly Gly Thr Phe Val Gly Ile
 50 55 60
 Ala Tyr Phe Leu Thr Gln Leu Ile Phe Val Asn Asp Leu Asp Ile Ser
 65 70 75 80
 Ala Pro Gln Trp Pro Ile Ile Ala Phe Gly Gly Leu Ala Gly Leu Leu
 85 90 95
 Gly Ser Ile Val Asp Ser Tyr Leu Gly Ala Thr Met Gln Tyr Thr Gly
 100 105 110
 Leu Asp Glu Ser Thr Gly Met Val Val Asn Ser Pro Thr Asn Xaa Ala
 115 120 125
 Arg His Ile Ala Gly Lys Pro Ile Leu Asp Asn Asn Ala Val Asn Leu
 130 135 140
 Phe Ser Ser Val Leu Ile Ala Leu Leu Leu Pro Thr Ala Ala Trp Gly
 145 150 155 160
 Phe Trp Pro Arg Gly Xaa
 165

<210> 82
 <211> 42
 <212> PRT
 <213> Homo sapiens

<220>

10054988.01502

<221> SITE
 <222> (42)
 <223> Xaa equals stop translation

<400> 82
 Met Cys Gly Leu Val Ile Leu Trp Pro Cys Ile Met Thr Leu Phe Ser
 1 5 10 15
 Ser Leu Ser Thr Gly Asp Val Leu Leu Pro Cys Lys Ile Leu Val Gly
 20 25 30
 Leu Arg Val Phe Ile Gly Ala Arg Val Xaa
 35 40

<210> 83
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals stop translation

<400> 83
 Met Cys Phe Pro Ala Cys Leu Cys Ser Pro Leu Thr Cys Leu Leu Ser
 1 5 10 15
 Val Trp Lys Pro Gly Leu Ala His Ala Val Val His Cys Met Leu Glu
 20 25 30
 Pro Val Glu Phe Ala Arg Val Val Gln Tyr Glu Ala Gly His Val Leu
 35 40 45
 Xaa

<210> 84
 <211> 57
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (57)
 <223> Xaa equals stop translation

<400> 84
 Met Leu Ile Ala Lys Leu Pro Val Leu Glu Ser Ile Cys Phe Phe Met
 1 5 10 15
 Leu Phe Leu Asn Pro Leu Val Ile Leu Leu Ser Leu Asn Asn Ala Leu
 20 25 30
 Pro Leu Val Phe His Pro His Ser Glu Phe Leu Glu Asp His Asn Arg
 35 40 45

2054988 01502

Gly Asp Thr Leu Pro Ser Ile Val Kaa
50 55

<210> 85
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Kaa equals stop translation

<400> 85
Met Leu Val Ala Thr Ala Val Cys Cys Tyr Leu Phe Trp Leu Ile Ala
1 5 10 15

Ile Leu Ala Gln Leu Asn Pro Leu Phe Gly Pro Gln Leu Lys Asn Glu
20 25 30

Thr Ile Trp Tyr Val Arg Phe Leu Trp Glu Kaa
35 40

<210> 86
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Kaa equals stop translation

<400> 86
Met Leu Leu Leu Trp Ala Phe Ser Gly Val Cys Ala Val Pro Ala Arg
1 5 10 15

Ala Thr Pro Val Pro Ser Ser Phe Cys Pro Gln Gly Pro Ser Leu Cys
20 25 30

Pro Lys Gln Pro Ala Ser Leu Ala Kaa
35 40

<210> 87
<211> 74
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (74)
<223> Kaa equals stop translation

<400> 87
Met His Ala Tyr Ala Cys Val Cys Ala Cys Met Leu Val Cys Val Cys
1 5 10 15

205270-8864500T

Val Cys Val Cys Arg Ala Leu Val Ile Pro Thr Glu Gln Arg His Arg
20 25 30

Arg Val Ala His Gly Arg Thr Ser Asp Ser Thr Leu Pro Cys Thr Val
35 40 45

Lys Ile Trp Pro Ser Glu Arg Gly Asp Gly Arg Gly Glu Arg Gly Glu
50 55 60

Arg Arg Arg Gly Thr Asp Trp Arg Gly Xaa
65 70

<210> 88

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals stop translation

<400> 88

Met His His Pro Asn Leu Cys Leu His Phe His Ala Ala Phe Ser Leu
1 5 10 15

Cys Val His Gly Cys Leu Cys Val Gln Phe Phe Pro Phe Tyr Lys Asp
20 25 30

Thr Xaa His Ile Gly Leu Glu Pro Thr Leu Met Thr Ser Ser Xaa
35 40 45

<210> 89

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals stop translation

<400> 89

Met Leu Phe Leu Asn Val Ile Leu Phe Ser Leu Thr Val Phe Thr Leu
1 5 10 15

Ile Ser Thr Ala His Thr Leu Asp Arg Ala Val Arg Ser Asp Trp Leu
20 25 30

Leu Leu Val Leu Ile Tyr Ala Cys Leu Glu Glu Leu Ile Pro Glu Leu
35 40 45

205210"88645004

Ile Phe Asn Leu Tyr Cys Gln Gly Asn Ala Thr Leu Phe Phe Kaa
 50 55 60

<210> 90

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Kaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Kaa equals stop translation

<400> 90

Met Leu Leu Lys Leu His Thr Leu Trp Pro Leu Trp Pro Gly Leu Trp
 1 5 10 15

Ala Thr Thr Kaa Ser Asp Ser Leu Gly Glu Arg Thr His Ser Leu Cys
 20 25 30

Arg Arg Lys Lys Ala Ser Leu Ser Thr Gly Trp Met Ser Trp Met Ser
 35 40 45

Cys Arg Ala Arg Ala Thr His Thr Gln Val Val Ser Leu Lys Asp Lys
 50 55 60

Val Glu Phe Ala Pro Kaa
 65 70

<210> 91

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Kaa equals stop translation

<400> 91

Met Lys Glu Ser Arg Lys Met Leu Trp Val Phe Lys Met Leu Phe Phe
 1 5 10 15

Lys Ile Val Leu Trp Val Asn Leu Leu Ser Ala Ala Leu Ser Cys Ile
 20 25 30

Gln Lys Gln Met Leu Gly Ile Ala Pro Gln Lys Cys Val Pro Lys Leu
 35 40 45

Cys Phe Gln Leu Tyr Ile Met Arg Kaa
 50 55

205210-88645001

<210> 92
 <211> 68
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (68)
 <223> Xaa equals stop translation

<400> 92
 Met Tyr Phe Leu Leu Ser Val Thr Ser Glu Ser Val Trp Arg Ser Trp
 1 5 10 15
 Thr Leu Thr Phe His Ser Phe Ala Ile Leu Ser Leu Arg Cys Trp Thr
 20 25 30
 Ser Leu Leu Leu Leu Ile Pro Leu Thr Ser Cys Asn Phe Ser Ser Pro
 35 40 45
 Ser Trp Arg Met Thr Ala Ser Gln Val Pro Ser Lys Arg Lys Ala Ser
 50 55 60
 Met Thr Leu Xaa
 65

<210> 93
 <211> 45
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals stop translation

<400> 93
 Met Lys Gly Trp Pro Val Phe Leu Leu Val Gln Ala Val Thr Phe Leu
 1 5 10 15
 Ser Val Ala Gln Ser Gly Ala Met Ala Cys Ala Ala Ser Gly Val Val
 20 25 30
 Tyr Ser Val Asp Val Pro Ala Cys Ser Ser Arg Ser Xaa
 35 40 45

<210> 94
 <211> 55
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals stop translation

10054988-012500

<400> 94

Met Val Leu Ser Pro Trp Ala Cys Leu Phe Val Val Phe Phe Pro Tyr
 1 5 10 15

Ile Gln Ser Ser Leu Arg Ser Asp Lys His Leu Gln Leu Ser Asn Ile
 20 25 30

Leu Pro Thr Pro Ser His His Ile His Leu Pro Ala Ser Ile Cys Ile
 35 40 45

Gln Leu Arg Ala Gly Asn Xaa
 50 55

<210> 95

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals stop translation

<400> 95

Met Cys Glu Tyr Val Leu Leu Leu Tyr Ile Val Leu Leu Cys Asn Arg
 1 5 10 15

Ser Tyr Ala Val Phe Thr Gln Cys Val Leu Arg Ser Ser Pro Ile Asp
 20 25 30

Ser Ser Arg Asn Ala Val Leu Leu Xaa
 35 40

<210> 96

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals stop translation

<400> 96

Met Thr Thr Pro Gly Leu Leu Ile Leu Phe Leu Ala His Val Cys Leu
 1 5 10 15

Val Asn His Gln Gln Ala Ala Glu Pro Gly Trp Lys Gln His Cys Cys
 20 25 30

Asn Trp Glu Gly His Arg Val Leu Xaa
 35 40

<210> 97

<211> 50

"0054988-01500"0054988-01500

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals stop translation

<400> 97
 Met Leu Cys His Val Tyr Leu Leu Leu Val Gly His Ala Xaa Phe Ser
 1 5 10 15
 Val Gly Leu Met Gly Gln Arg Lys Leu Arg Cys Ser Ile Asn Ser Ala
 20 25 30
 Leu Arg Ser Ala Val Ser Ser Ala Trp Asn Ser Ser Ile Cys Phe Asn
 35 40 45
 Ser Xaa
 50

<210> 98
 <211> 58
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals stop translation

<400> 98
 Met Ser Glu Trp Cys Gln Pro Asp Gln Ile Leu Leu Gln Phe Pro Val
 1 5 10 15
 Leu Ala Thr Met Ser Val Ala Phe Leu Ile Gln Arg Cys Phe Cys Phe
 20 25 30
 Trp Trp Phe Val Leu Asn Ala Phe Ser Ile Pro Ser Gly Thr Glu Lys
 35 40 45
 Lys Arg Ile Val Phe Lys Lys Trp Leu Xaa
 50 55

<210> 99
 <211> 52
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (52)

205210" 88645001

<223> Kaa equals stop translation

<400> 99

Met Lys Val Val Val Val Met Val Val Ile Leu Val Val Val Thr Leu
1 5 10 15

Val Val Val Val Met Val Val Ile Leu Val Met Val Val Met Val Val
20 25 30

Ala Leu Val Thr Leu Thr Trp Gly Pro Val Ala Val Thr Val Asp Ala
35 40 45

Gly Ser Trp Kaa
50

<210> 100

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Kaa equals stop translation

<400> 100

Met Pro His Phe Leu Arg Trp Leu Leu Thr Thr Phe Arg Ile Arg Ala
1 5 10 15

Ser Cys Gly Ser Thr Pro Cys Trp Ser Pro Ser His Leu Gly Cys Leu
20 25 30

Gln Pro Ala Leu Pro Arg Asp Leu Ser His Leu Glu Xaa
35 40 45

<210> 101

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Kaa equals stop translation

<400> 101

Met Ser Thr Lys Ile Leu Gln Phe Leu Phe Ser Ser Cys Cys Trp Val
1 5 10 15

Pro Pro Met Leu Phe Leu Phe Lys Asn Thr Lys Cys Arg Thr Ser Leu
20 25 30

Leu Tyr Cys Phe Tyr Phe Ile Leu Leu Thr Cys Ser Leu Ser Glu Tyr
35 40 45

Asp Ser Leu Leu Ser Ser Lys Val Phe Xaa
50 55

20250708 015007

<210> 102
 <211> 41
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals stop translation

<400> 102
 Met Phe Trp Phe Trp Phe Leu Leu Ser Leu Ser Phe Gln Gln Val Glu
 1 5 10 15
 Gln Gln Gln Val Phe Gln Cys Ile Cys Cys Thr Arg Thr Lys Tyr Lys
 20 25 30

Ser Val Trp His Gln Lys Ser Lys Xaa
 35 40

<210> 103
 <211> 143
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (104)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (115)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (143)
 <223> Xaa equals stop translation

<400> 103
 Met Thr Leu Ile Glu Val Leu Val Ser Val Leu Ile Leu Ala Val Gly
 1 5 10 15
 Leu Leu Arg Ala Ala Val Ile Gln Leu Asn Ala Leu Lys Tyr Thr Asp
 20 25 30

Ser Ser Arg Met Thr Ser Gln Ala Ser Phe Ile Ala Tyr Asp Met Leu
 35 40 45

Asp Arg Ile Arg Ala Asn Ser Gly Ala Asp Tyr Ser Trp Gly Gln Gly

2054988.01502

50

55

60

Glu Arg Ala Pro Ser Thr Thr Ser Val Ala Ser Val Arg Asp Leu Asp
65 70 75 80

Leu His Asp Phe Glu Ala Asn Ile Val Gly Phe Ala Gly Glu Ser Ala
85 90 95

Lys Gly Ser Val Ala Val Asn Xaa Xaa Glu Val Thr Ile Ser Ile Ser
100 105 110

Trp Asp Xaa Ser Arg Gly Ala Asn Ala Gln Gly Thr Arg Glu Thr Phe
115 120 125

Thr Leu Thr Ser Arg Val Ala Val Asp Pro Arg Val Leu Pro Xaa
130 135 140

<210> 104

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals stop translation

<400> 104

Met Ala Phe Phe Phe Ala Leu Phe Val Ile Phe Phe Val Ile Val Val
1 5 10 15

Gln Met Glu Ser His Ser Gly Leu Gly Lys Lys Ser Lys Ile Leu Ser
20 25 30

Gly Gly Gln Gly Glu Glu Val Tyr Phe Leu Asp Xaa
35 40

<210> 105

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals stop translation

<400> 105

Met Tyr Phe Tyr Leu Ala Val Lys Pro Pro Leu Leu Trp Ala Arg Pro
1 5 10 15

Gln Val Ser Cys Arg Leu Ser Val Ser Leu Ala Trp Ser Tyr His Leu
20 25 30

His Leu Trp Ala Leu Phe Leu Phe Ser Ile Leu Leu Gln Cys Arg Ala
35 40 45

2054988 012502

Arg Phe Leu Leu Leu Leu Val Leu Ser Gln Thr Gln Asp Leu Xaa
50 55 60

<210> 106
<211> 283
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (283)
<223> Xaa equals stop translation

<400> 106
Met Gly Ser Pro Gly Met Val Leu Gly Leu Leu Val Gln Ile Trp Ala
1 5 10 15
Leu Gln Glu Ala Ser Ser Leu Ser Val Gln Gln Gly Pro Asn Leu Leu
20 25 30
Gln Val Arg Gln Gly Ser Gln Ala Thr Leu Val Cys Gln Val Asp Gln
35 40 45
Ala Thr Ala Trp Glu Arg Leu Arg Val Lys Trp Thr Lys Asp Gly Ala
50 55 60
Ile Leu Cys Gln Pro Tyr Ile Thr Asn Gly Ser Leu Ser Leu Gly Val
65 70 75 80
Cys Gly Pro Gln Gly Arg Leu Ser Trp Gln Ala Pro Ser His Leu Thr
85 90 95
Leu Gln Leu Asp Pro Val Ser Leu Asn His Ser Gly Ala Tyr Val Cys
100 105 110
Trp Ala Ala Val Glu Ile Pro Glu Leu Glu Glu Ala Glu Gly Asn Ile
115 120 125
Thr Arg Leu Phe Val Asp Pro Asp Asp Pro Thr Gln Asn Arg Asn Arg
130 135 140
Ile Ala Ser Phe Pro Gly Phe Leu Phe Val Leu Leu Gly Val Gly Ser
145 150 155 160
Met Gly Val Ala Ala Ile Val Trp Gly Ala Trp Phe Trp Gly Arg Arg
165 170 175
Ser Cys Gln Gln Arg Asp Ser Gly Asn Ser Pro Gly Asn Ala Phe Tyr
180 185 190
Ser Asn Val Leu Tyr Arg Pro Arg Gly Ala Pro Lys Lys Ser Glu Asp
195 200 205
Cys Ser Gly Glu Gly Lys Asp Gln Arg Gly Gln Ser Ile Tyr Ser Thr
210 215 220
Ser Phe Pro Gln Pro Ala Pro Arg Gln Pro His Leu Ala Ser Arg Pro
225 230 235 240

2054983.012500

Cys Pro Ser Pro Arg Pro Cys Pro Ser Pro Arg Pro Gly His Pro Val
 245 250 255

Ser Met Val Arg Val Ser Pro Arg Pro Ser Pro Thr Gln Gln Pro Arg
 260 265 270

Pro Lys Gly Phe Pro Lys Val Gly Glu Glu Xaa
 275 280

<210> 107
 <211> 98
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (98)
 <223> Xaa equals stop translation

<400> 107
 Met Cys Lys Leu Cys Phe Tyr Leu Tyr Leu Cys Thr Trp Phe Pro Phe
 1 5 10 15

Gly Ala Ser Gly Leu Phe Trp Asp Lys Trp Cys Leu Pro Arg His Leu
 20 25 30

Pro Val Val Ser Gly Gln Glu Gln Leu Ser Ser Ser Leu Pro Ala Ala
 35 40 45

Leu Leu Phe Leu Gly Arg Arg Trp Arg Pro Pro Leu Arg Val Ser Pro
 50 55 60

Gly Leu Ser Phe Arg Gly Gly Arg Ala Gly Glu Pro Gln Gly Trp Gly
 65 70 75 80

Asp Ser Trp Glu Met Glu Val Ala Pro Ala Pro Leu Asp Gln Tyr Trp
 85 90 95

Leu Xaa

<210> 108
 <211> 62
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals stop translation

<400> 108
 Met Cys Leu Leu Leu Leu Trp Leu Thr Thr Phe Gln Arg Thr Ser Gly
 1 5 10 15

Ala Leu Arg Arg Gly Gly Leu Ser Ser Pro Ala Trp Ala Met Arg Ser

2054988.012500

20

25

30

Pro Ser Val Tyr Ser Thr Gln Thr Pro Ser Pro Met Met Ser Thr Gly
 35 40 45

Thr Leu Arg Gly Leu Ser Gly Ala Met Cys Asn Leu Ser Kaa
 50 55 60

<210> 109

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Kaa equals stop translation

<400> 109

Met Lys Leu Cys Lys Leu Thr Gln Cys Ser Phe Leu Leu Lys Ser Leu
 1 5 10 15

Ile Leu Leu Leu Glu Gln Leu Asn Val Ser Met Gly Phe Val Ala Ala
 20 25 30

Phe Asp Val Leu Val Gly Cys Ser Ile Cys Phe Glu Lys His Kaa
 35 40 45

<210> 110

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Kaa equals stop translation

<400> 110

Met Thr Thr Phe Ser Leu Cys Ser Gln Leu Ala Leu Leu Cys Ala Cys
 1 5 10 15

Thr Ser Leu Val Ser Leu Pro Pro Phe Val Asp Tyr Lys Asp Thr Ser
 20 25 30

Pro Val Gly Pro Glu Pro His Cys Lys Gly Leu Ile Leu Thr Kaa
 35 40 45

<210> 111

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

20251008 01:00:00

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals stop translation

<400> 111

Met Asn Ile Leu Val Cys Val Phe Trp Leu Trp Gly Gly Val Ala Gly
1 5 10 15

Ser Trp Gly Arg His Ile Phe Ile Phe Thr Ser Val Lys Asn Val Xaa
20 25 30

Xaa Ala Ser His Cys Ala Trp Pro Xaa Xaa
35 40

<210> 112

<211> 41

<212> PRT

<213> Homo sapiens

<400> 112

Met Gly Gly Ile Ala Leu Pro Ser Leu Ser Leu Cys Leu Leu Ser Ala
1 5 10 15

Gly Ser His Cys Ile Ser Pro Ala Asp Gln Glu Thr Gly Pro Lys Val
20 25 30

Thr Ala Pro Gln Gly Asn Phe Leu Pro
35 40

<210> 113

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals stop translation

<400> 113

Met Ile Val Leu Lys Trp Ile Phe Leu Ala Cys Val His Glu Cys Met
1 5 10 15

Cys Lys Pro Leu Lys Cys Phe Leu Glu Lys Ile Leu Glu Val Leu Ile

202510-8864500

20

25

30

Met Val Lys Leu Lys Met Gly Val Leu Pro Ala Xaa
 35 40

<210> 114
 <211> 182
 <212> PRT
 <213> Homo sapiens

<400> 114
 Met Glu Pro Gln Leu Gly Pro Glu Ala Ala Ala Leu Arg Pro Gly Trp
 1 5 10 15
 Leu Ala Leu Leu Leu Trp Val Ser Ala Leu Ser Cys Ser Phe Ser Leu
 20 25 30
 Pro Ala Ser Ser Leu Ser Ser Leu Val Pro Gln Val Arg Thr Ser Tyr
 35 40 45
 Asn Phe Gly Arg Thr Phe Leu Gly Leu Asp Lys Cys Asn Ala Cys Ile
 50 55 60
 Gly Thr Ser Ile Cys Lys Lys Phe Phe Lys Glu Glu Ile Arg Ser Asp
 65 70 75 80
 Asn Trp Leu Ala Ser His Leu Gly Leu Pro Pro Asp Ser Leu Leu Ser
 85 90 95
 Tyr Pro Ala Asn Tyr Ser Asp Asp Ser Lys Ile Trp Arg Pro Val Glu
 100 105 110
 Ile Phe Arg Leu Val Ser Lys Tyr Gln Asn Glu Ile Ser Asp Arg Lys
 115 120 125
 Ile Cys Ala Ser Ala Ser Ala Pro Lys Thr Cys Ser Ile Glu Arg Val
 130 135 140
 Leu Arg Lys Thr Glu Arg Phe Gln Lys Trp Leu Gln Ala Lys Arg Leu
 145 150 155 160
 Thr Pro Asp Leu Val Gln Asp Cys His Gln Gly Gln Arg Glu Leu Lys
 165 170 175
 Phe Leu Cys Met Leu Arg
 180

<210> 115
 <211> 81
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (81)
 <223> Xaa equals stop translation

2054988 01300
 2054988 01300

<400> 115

Met Ala Leu Gly Ser Met Tyr Leu Val Leu Thr Leu Ile Val Ala Lys
 1 5 10 15

Val Leu Arg Gly Ala Glu Pro Cys Cys Gly Pro Leu Lys Asn Arg Val
 20 25 30

Leu Arg Pro Cys Pro Leu Pro Val His Cys Pro Leu Pro Ile Pro Ser
 35 40 45

Pro Ala Glu Gly Ile Pro Trp Val Ala Tyr Leu Pro Ile Arg Trp Phe
 50 55 60

Ile Ser Cys Cys Pro Gly His Cys Ile Gln Ile Pro Met Cys Thr Ser
 65 70 75 80

Xaa

<210> 116

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals stop translation

<400> 116

Met Ser Cys Glu Asn Asn Leu Lys Lys Lys Asn Thr Thr Leu Leu Ser
 1 5 10 15

Tyr Leu Ile Phe Leu Ala Leu Val Met Tyr Leu Thr Phe Met Phe Leu
 20 25 30

Ser Ser Val Ser Thr Ser Arg Ile Ser Leu Ser Asn Ser Met Ile Ile
 35 40 45

Xaa

<210> 117

<211> 204

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

205210"88645001

<220>
 <221> SITE
 <222> (99)
 <223> Kaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (115)
 <223> Kaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (151)
 <223> Kaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (204)
 <223> Kaa equals stop translation

<400> 117
 Met Val Gly Leu Met His Ile Gly Phe Gly Ile Val Leu Cys Leu Ile
 1 5 10 15
 Ser Phe Ser Phe Arg Glu Val Leu Gly Phe Ala Ser Thr Ala Kaa Ile
 20 25 30
 Gly Gly Tyr Pro Phe Trp Gly Gly Leu Ser Phe Ile Ile Ser Gly Ser
 35 40 45
 Leu Ser Val Ser Ala Ser Lys Glu Leu Ser Arg Cys Leu Val Lys Gly
 50 55 60
 Ser Leu Gly Met Asn Ile Gly Arg Ser Ile Leu Ala Phe Ile Gly Val
 65 70 75 80
 Ile Leu Leu Leu Val Asp Met Cys Ile Asn Gly Val Kaa Gly Gln Asp
 85 90 95
 Tyr Trp Kaa Val Leu Ser Gly Lys Gly Ile Ser Ala Thr Leu Met Ile
 100 105 110
 Phe Ser Kaa Leu Glu Phe Phe Val Ala Cys Ala Thr Ala His Phe Ala
 115 120 125
 Asn Gln Ala Asn Thr Thr Thr Asn Met Ser Val Leu Val Ile Pro Asn
 130 135 140
 Met Tyr Glu Ser Asn Pro Kaa Thr Pro Ala Ser Ser Ser Ala Pro Pro
 145 150 155 160
 Arg Cys Asn Asn Tyr Ser Ala Asn Ala Pro Lys Arg Lys Arg Gly Ile
 165 170 175
 Ser Leu Ile Ser Trp Arg Lys Thr Thr Cys Lys Asn Phe Leu Arg Arg
 180 185 190
 Cys Leu Leu Leu Ser Thr Met Ile Ser Ser Leu Kaa
 195 200

10054988.012502

<210> 118
 <211> 19
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (19)
 <223> Kaa equals stop translation

<400> 118
 Ser Leu Asp Ala Phe Arg Leu Ile Arg Ala Met Gly Ala Thr Gly Leu
 1 5 10 15

Ser Phe Xaa

<210> 119
 <211> 13
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Kaa equals stop translation

<400> 119
 Leu Val Leu Trp Ile Val Met Leu Thr Tyr Ala Thr Xaa
 1 5 10

<210> 120
 <211> 80
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (80)
 <223> Kaa equals stop translation

<400> 120
 Met Glu Pro Gln Leu Gly Pro Glu Ala Ala Ala Leu Arg Pro Gly Trp
 1 5 10 15

Leu Ala Leu Leu Leu Trp Val Ser Ala Leu Ser Cys Ser Phe Ser Leu
 20 25 30

Pro Ala Ser Ser Leu Ser Ser Leu Val Pro Gln Val Arg Thr Ser Tyr
 35 40 45

Asn Phe Gly Arg Thr Phe Leu Gly Leu Asp Lys Cys Asn Ala Cys Ile
 50 55 60

Gly Thr Ser Ile Cys Lys Lys Phe Phe Lys Glu Arg Asn Lys Ile Xaa

2054988 012500

65

70

75

80

<210> 121
 <211> 146
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (107)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (111)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (115)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (122)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 121
 Met Glu Pro Gln Leu Gly Pro Glu Ala Ala Ala Leu Arg Pro Gly Trp
 1 5 10 15
 Leu Ala Leu Leu Leu Trp Val Ser Ala Leu Ser Cys Ser Phe Ser Leu
 20 25 30
 Pro Ala Ser Ser Leu Ser Ser Leu Val Pro Gln Val Arg Thr Ser Tyr
 35 40 45
 Asn Phe Gly Arg Thr Phe Leu Gly Leu Asp Lys Cys Asn Ala Cys Ile
 50 55 60
 Gly Thr Ser Ile Cys Lys Lys Phe Phe Lys Glu Glu Ile Arg Ser Asp
 65 70 75 80
 Asn Trp Leu Ala Ser His Leu Gly Thr Ala Ser Arg Phe Pro Leu Xaa
 85 90 95

005210" 88645001

Ser Tyr Pro Cys Lys Leu Leu Gln Met Ile Xaa Lys Ile Trp Xaa Pro
100 105 110

Cys Gly Xaa Leu Leu Thr Gly Gln Gln Xaa Ser Asn Glu Ile Ser Lys
115 120 125

Gln Glu Ile Xaa Cys Leu Leu His Pro Pro Pro Lys Asn Leu His Ile
130 135 140

Asp Val
145

<210> 122

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals stop translation

<400> 122

Met Ala Leu Gly Ser Met Tyr Leu Val Leu Thr Leu Ile Val Ala Lys
1 5 10 15

Val Leu Arg Gly Ala Glu Pro Cys Cys Gly Pro Leu Lys Asn Arg Val
20 25 30

Leu Arg Pro Cys Pro Leu Pro Val His Cys Pro Leu Pro Ile Pro Ser
35 40 45

Pro Ala Glu Gly Ile Pro Trp Val Ala Tyr Leu Pro Ile Arg Trp Phe
50 55 60

Ile Ser Cys Cys Pro Gly His Cys Ile Gln Ile Pro Met Cys Thr Ser
65 70 75 80

Xaa

<210> 123

<211> 337

<212> PRT

<213> Homo sapiens

<400> 123

Glu Pro His Arg Gly Pro His Leu Pro Pro Asp Leu Gly His His His
1 5 10 15

Gly Gln Arg Pro Gly Leu Gln Asn Ile Asn Val Phe Leu Arg Asn Thr
20 25 30

Val Lys Val Thr Gly Val Val Val Phe Met Phe Ser Leu Ser Trp Gln
35 40 45

005498001500

Leu Ser Leu Val Thr Phe Met Gly Phe Pro Ile Ile Met Met Val Ser
 50 55 60
 Asn Ile Tyr Gly Lys Tyr Tyr Lys Arg Leu Ser Lys Glu Val Gln Asn
 65 70 75 80
 Ala Leu Ala Arg Ala Ser Asn Thr Ala Glu Glu Thr Ile Ser Ala Met
 85 90 95
 Lys Thr Val Arg Ser Phe Ala Asn Glu Glu Glu Glu Ala Glu Val Tyr
 100 105 110
 Leu Arg Lys Leu Gln Gln Val Tyr Lys Leu Asn Arg Lys Glu Ala Ala
 115 120 125
 Ala Tyr Met Tyr Tyr Val Trp Gly Ser Gly Leu Thr Leu Leu Val Val
 130 135 140
 Gln Val Ser Ile Leu Tyr Tyr Gly Gly His Leu Val Ile Ser Gly Gln
 145 150 155 160
 Met Thr Ser Gly Asn Leu Ile Ala Phe Ile Ile Tyr Glu Phe Val Leu
 165 170 175
 Gly Asp Cys Met Glu Asn Val Ser Phe Ser Leu Ser Pro Gly Lys Val
 180 185 190
 Thr Ala Leu Val Gly Pro Ser Gly Ser Gly Lys Ser Ser Cys Val Asn
 195 200 205
 Ile Leu Glu Asn Phe Tyr Pro Leu Glu Gly Gly Arg Val Leu Leu Asp
 210 215 220
 Gly Lys Pro Ile Ser Ala Tyr Asp His Lys Tyr Leu His Arg Val Ile
 225 230 235 240
 Ser Leu Val Ser Gln Glu Pro Val Leu Phe Ala Arg Ser Ile Thr Asp
 245 250 255
 Asn Ile Ser Tyr Gly Leu Pro Thr Val Pro Phe Glu Met Val Val Glu
 260 265 270
 Ala Ala Gln Lys Ala Asn Ala His Gly Phe Ile Met Glu Leu Gln Asp
 275 280 285
 Gly Tyr Ser Thr Glu Thr Gly Glu Lys Gly Ala Gln Leu Ser Gly Gly
 290 295 300
 Gln Lys Gln Arg Val Ala Trp Pro Gly Leu Trp Cys Gly Thr Pro Gln
 305 310 315 320
 Ser Ser Ser Trp Met Lys Pro Pro Ala Leu Trp Met Pro Arg Ala Ser
 325 330 335
 Ile

<211> 315

<212> PRT

<213> Homo sapiens

<400> 124

Met Ser Ser Ala Thr Trp Thr Ala Ala Ser Trp Arg Thr Ser Ala Thr
 1 5 10 15

Ser Thr Ser Leu Thr Arg Cys Trp Ile Ser Gly Gln Pro Ala Cys Thr
 20 25 30

Ala Ala Ala Cys Cys Trp Gly Ala Thr Ile Gly Val Ala Lys Asn Ser
 35 40 45

Ala Leu Gly Pro Arg Arg Leu Arg Ala Ser Trp Leu Val Ile Thr Leu
 50 55 60

Val Cys Leu Phe Val Gly Ile Tyr Ala Met Val Lys Leu Leu Leu Phe
 65 70 75 80

Ser Glu Val Arg Arg Pro Ile Arg Asp Pro Trp Phe Trp Ala Leu Phe
 85 90 95

Val Trp Thr Tyr Ile Ser Leu Gly Ala Ser Phe Leu Leu Trp Trp Leu
 100 105 110

Leu Ser Thr Val Arg Pro Gly Thr Gln Ala Leu Glu Pro Gly Ala Ala
 115 120 125

Thr Glu Ala Glu Gly Phe Pro Gly Ser Gly Arg Pro Pro Pro Glu Gln
 130 135 140

Ala Ser Gly Ala Thr Leu Gln Lys Leu Leu Ser Tyr Thr Lys Pro Asp
 145 150 155 160

Val Ala Phe Leu Val Ala Ala Ser Phe Phe Leu Ile Val Ala Ala Leu
 165 170 175

Gly Glu Thr Phe Leu Pro Tyr Tyr Thr Gly Arg Ala Ile Asp Gly Ile
 180 185 190

Val Ile Gln Lys Ser Met Asp Gln Phe Ser Thr Ala Val Val Ile Val
 195 200 205

Cys Leu Leu Ala Ile Gly Ser Ser Phe Ala Ala Gly Ile Arg Gly Gly
 210 215 220

Ile Phe Thr Leu Ile Phe Ala Arg Leu Asn Ile Arg Leu Arg Asn Cys
 225 230 235 240

Leu Phe Arg Ser Leu Val Ser Gln Glu Thr Ser Phe Phe Asp Glu Asn
 245 250 255

Arg Thr Gly Asp Leu Ile Ser Arg Leu Thr Ser Asp Thr Thr Met Val
 260 265 270

Ser Asp Leu Val Ser Arg Thr Ser Met Ser Ser Cys Gly Thr Gln Ser
 275 280 285

205270" 8864500F

Arg Ser Arg Ala Trp Trp Ser Ser Cys Ser Ala Ser His Gly Ser Ser
290 295 300

Pro Trp Ser Pro Ser Trp Ala Ser Pro Ser Ser
305 310 315

<210> 125
<211> 167
<212> PRT
<213> Homo sapiens

<400> 125
His Leu Leu Arg Pro Ala His Cys Ala Phe Arg Asp Gly Gly Gly Gly
1 5 10 15

Arg Thr Glu Gly Gln Cys Pro Arg Leu His His Gly Thr Pro Gly Arg
20 25 30

Leu Gln His Arg Asp Arg Gly Glu Gly Arg Pro Ala Val Arg Trp Pro
35 40 45

Glu Ala Ala Gly Gly Met Ala Arg Ala Leu Val Arg Asn Pro Pro Val
50 55 60

Leu Ile Leu Asp Glu Ala Thr Ser Ala Leu Asp Ala Glu Ser Glu Tyr
65 70 75 80

Leu Ile Gln Gln Ala Ile His Gly Asn Leu Gln Lys His Thr Val Leu
85 90 95

Ile Ile Ala His Arg Leu Ser Thr Val Glu His Ala His Leu Ile Val
100 105 110

Val Leu Asp Lys Gly Arg Val Val Gln Gln Gly Thr His Gln Gln Leu
115 120 125

Leu Ala Gln Gly Gly Leu Tyr Ala Lys Leu Val Gln Arg Gln Met Leu
130 135 140

Gly Leu Gln Pro Ala Ala Asp Phe Thr Ala Gly His Asn Glu Pro Val
145 150 155 160

Ala Asn Gly Ser His Lys Ala
165

<210> 126
<211> 227
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 126
Arg Leu Thr Lys Thr Ile Ser Phe Ser Leu Gln Asn Gln Thr Ala Phe

2054988.012502

```
<210> 127
<211> 29
<212> PRT
<213> Homo sapiens
```

```

<400> 127
Tyr Pro Ile Trp Glu Asn Glu Asn Thr Leu Ser Trp Tyr Leu Pro Ser
  1                      5                      10                      15
Pro Thr Thr Leu Leu Ser Pro Pro Val Leu Phe Cys Val
      20                      25

```

<210> 128

<211> 27
 <212> PRT
 <213> Homo sapiens

<400> 128
 Arg Val Leu Asp Leu Leu Thr Thr Glu Lys Gly Gly Thr Cys Ile Tyr
 1 5 10 15
 Leu Gln Glu Glu Cys Cys Phe Cys Val Asn Glu
 20 25

<210> 129
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 129
 Phe Ser Leu Gly Arg Arg His Cys Leu Gly
 1 5 10

<210> 130
 <211> 123
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 130
 Glu His Pro Thr Ala Asp Arg Ala Gly Cys Ser Ala Ser Gly Ala Cys
 1 5 10 15
 Tyr Ser Leu His His Ala Thr Met Lys Arg Gln Ala Ala Glu Glu Ala
 20 25 30
 Cys Ile Leu Arg Gly Gly Ala Leu Ser Thr Val Arg Ala Gly Ala Glu
 35 40 45
 Leu Arg Ala Val Leu Ala Leu Leu Arg Ala Gly Pro Gly Pro Gly Xaa
 50 55 60
 Gly Ser Lys Asp Leu Leu Phe Trp Val Ala Leu Glu Arg Arg Arg Ser
 65 70 75 80
 His Cys Xaa Leu Glu Asn Glu Pro Leu Arg Gly Phe Ser Trp Leu Ser
 85 90 95
 Ser Asp Pro Gly Gly Leu Glu Ser Asp Thr Leu Gln Trp Val Glu Glu
 100 105 110

205270" 2254500F

Pro Gln Arg Ser Cys Thr Ala Arg Arg Trp Val
115 120

<210> 131

<211> 344

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Kaa equals any of the naturally occurring L-amino acids

<400> 131

Ser Arg Pro Pro Val Gly Ser Ser Pro Gln Leu Glu Gly Asp Ala Met
1 5 10 15

Pro Pro Kaa Arg Gln Arg Tyr Leu Cys Lys Tyr Gln Phe Glu Val Leu
20 25 30

Cys Pro Ala Pro Arg Pro Gly Ala Ala Ser Asn Leu Ser Tyr Arg Ala
35 40 45

Pro Phe Gln Leu His Ser Ala Ala Leu Asp Phe Ser Pro Pro Gly Thr
50 55 60

Glu Val Ser Ala Leu Cys Arg Gly Gln Leu Pro Ile Ser Val Thr Cys
65 70 75 80

Ile Ala Asp Glu Ile Gly Ala Arg Trp Asp Lys Leu Ser Gly Asp Val
85 90 95

Leu Cys Pro Cys Pro Gly Arg Tyr Leu Arg Ala Gly Lys Cys Ala Glu
100 105 110

Leu Pro Asn Cys Leu Asp Asp Leu Gly Gly Phe Ala Cys Glu Cys Ala
115 120 125

Thr Gly Phe Glu Leu Gly Lys Asp Gly Arg Ser Cys Val Thr Ser Gly
130 135 140

Glu Gly Gln Pro Thr Leu Gly Gly Thr Gly Val Pro Thr Arg Arg Pro
145 150 155 160

Pro Ala Thr Ala Thr Ser Pro Val Pro Gln Arg Thr Trp Pro Ile Arg
165 170 175

Val Asp Glu Lys Leu Gly Glu Thr Pro Leu Val Pro Glu Gln Asp Asn
180 185 190

Ser Val Thr Ser Ile Pro Glu Ile Pro Arg Trp Gly Ser Gln Ser Thr
195 200 205

Met Ser Thr Leu Gln Met Ser Leu Gln Ala Glu Ser Lys Ala Thr Ile
210 215 220

Thr Pro Ser Gly Ser Val Ile Ser Lys Phe Asn Ser Thr Thr Ser Ser
225 230 235 240

10054988.012502

Ala Thr Pro Gln Ala Phe Asp Ser Ser Ser Ala Val Val Phe Ile Phe
245 250 255

Val Ser Thr Ala Val Val Val Leu Val Ile Leu Thr Met Thr Val Leu
260 265 270

Gly Leu Val Lys Leu Cys Phe His Glu Ser Pro Ser Ser Gln Pro Arg
275 280 285

Lys Glu Ser Met Gly Pro Pro Gly Trp Arg Val Ile Leu Lys Pro Ala
290 295 300

Ala Leu Gly Ser Ser Ser Ala His Cys Thr Asn Asn Gly Val Lys Val
305 310 315 320

Gly Asp Cys Asp Leu Arg Asp Arg Ala Glu Gly Ala Leu Leu Ala Glu
325 330 335

Ser Pro Leu Gly Ser Ser Asp Ala
340

<210> 132
<211> 7
<212> PRT
<213> Homo sapiens

<400> 132
Arg Tyr Leu Thr Leu Thr His
1 5

<210> 133
<211> 6
<212> PRT
<213> Homo sapiens

<400> 133
Cys Asn Thr Pro Trp Ala
1 5

<210> 134
<211> 8
<212> PRT
<213> Homo sapiens

<400> 134
Ala Pro Val Ile Phe Ser His Ser
1 5

<210> 135
<211> 6
<212> PRT
<213> Homo sapiens

<400> 135

2054988.012500

Arg Asn Val Pro Asp Asp
1 5

<210> 136
<211> 6
<212> PRT
<213> Homo sapiens

<400> 136
Gly Leu Glu Asp Val Ser
1 5

<210> 137
<211> 23
<212> PRT
<213> Homo sapiens

<400> 137
Val Glu Gly Gly His Ser Leu Asp Asn Ser Leu Ser Ile Leu Arg Thr
1 5 10 15

Phe Tyr Met Leu Gly Val Arg
20

<210> 138
<211> 6
<212> PRT
<213> Homo sapiens

<400> 138
Val Glu Gly Gly His Ser
1 5

<210> 139
<211> 190
<212> PRT
<213> Homo sapiens

<400> 139
Thr Trp Leu Arg Leu Gly Ser Ser Gln Ile Trp Leu Gly Thr Ala Pro
1 5 10 15

Arg Gly Pro Arg Ile His Pro Glu Gln Ala Gly Leu Ala Gly Ala Pro
20 25 30

Val Lys Ser Thr Ser Ser Glu Glu Ser Gln Pro Gly Gly Gln Cys Gln
35 40 45

Ser Ser Gly Gly Ala Gln Thr Leu Pro Ser Leu Arg Ala Ala Pro Val
50 55 60

Ala Ala Leu Gly Ser Leu Ser Ser Tyr Pro Asp Ser Cys Pro Arg Ala
65 70 75 80

Thr Thr Pro Glu Leu Cys Pro Gly Ala Pro Thr Leu His Leu Ala Asp

205210"8864500T

85

90

95

Ser Ile Ser Gly Pro Val Ser Pro Pro Gly Ser Ser Leu Gly Pro Asp
100 105 110

Ala Trp Thr Leu Cys Ala Lys His His Gln Ala Lys Gly Met Thr Leu
115 120 125

Gly Thr Pro Lys Val Leu Arg Leu Gln Pro Val Ser Pro Cys Trp Gly
130 135 140

Pro Lys Ser Trp Arg Val Pro Gly Pro Phe Gln Pro Gly Arg Arg Arg
145 150 155 160

Gly Glu Ser Arg Gln Gln Gly Arg Gly Lys Arg Arg Ser Ala Arg Ser
165 170 175

Ala Gln Ser Pro Thr Gly Pro Glu Ser Ala Ala Trp Pro Cys
180 185 190

<210> 140

<211> 129

<212> PRT

<213> Homo sapiens

<400> 140

Thr Val Ala Thr Ala Cys Val Trp Ala Ala Cys Thr Gly Cys Trp Ala
1 5 10 15

Arg Pro Pro Val Pro Thr Trp Ala Gly Cys Ala Ala Arg Cys Ala Ala
20 25 30

Glu Asp Ala Arg Ala Gly Val Gly Asp Leu Pro Ala Thr Gly Gly Ala
35 40 45

Ala Thr Gly Arg Arg Ala Leu Thr Pro Ala Pro Pro Arg Gly Pro Cys
50 55 60

Ile Leu Ser Pro Gln Pro Trp Ala Leu Gly Leu Pro Gly Ala Pro Leu
65 70 75 80

Pro Ala Ala Leu Pro Gly Arg Ala Arg Gly Arg Pro Gly Leu Pro Ala
85 90 95

Leu Pro Ala Leu Ser Thr Leu Pro Gly Cys Pro Ala Leu Asp Pro Ala
100 105 110

Gly Ala Gly Thr Leu Cys Pro Pro Pro Gly Ala Ala Glu Pro Ala Gly
115 120 125

Pro

<210> 141

<211> 90

<212> PRT

<213> Homo sapiens

2054930.8864500T

<400> 141

Arg Ser Gly Gln Pro Gly Glu Gly Ser Met Leu Arg Lys Phe Ser Leu
 1 5 10 15

Gln Arg Leu Leu Ser Pro Leu Asp Gln Ala Gln Thr Arg Trp Gly Leu
 20 25 30

Ala Leu Ala Cys Val Ala Gly Asp Lys Gly Pro Pro Arg Pro Trp Asn
 35 40 45

Ile Ser Ser Ala Pro Ala His Pro His Val Thr Thr Pro Gly Met Glu
 50 55 60

Thr Ser Gly Gly Pro Ala Arg Asp Gly Gly Leu Ile Leu Glu Arg Glu
 65 70 75 80

Ala Ala Phe Asn Lys Pro Ala Pro Gly Glu
 85 90

<210> 142

<211> 307

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (197)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (203)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (219)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (255)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 142

Arg Cys Gln Arg Asn Lys Asp Ile Met Met Ser Ser Lys Pro Thr Ser
 1 5 10 15

His Ala Glu Val Asn Glu Thr Ile Pro Asn Pro Tyr Pro Pro Ser Ser
 20 25 30

Phe Met Ala Pro Gly Phe Gln Gln Pro Leu Gly Ser Ile Asn Leu Glu

10054988 012502

35 40 45
 Asn Gln Ala Gln Gly Ala Gln Arg Ala Gln Pro Tyr Gly Ile Thr Ser
 50 55 60
 Pro Gly Ile Phe Ala Ser Ser Gln Pro Gly Gln Gly Asn Ile Gln Met
 65 70 75 80
 Ile Asn Pro Ser Val Gly Thr Ala Val Met Asn Phe Lys Glu Glu Ala
 85 90 95
 Lys Ala Leu Gly Val Ile Gln Ile Met Val Gly Leu Met His Ile Gly
 100 105 110
 Phe Gly Ile Val Leu Cys Leu Ile Ser Phe Ser Phe Arg Glu Val Leu
 115 120 125
 Gly Phe Ala Ser Thr Ala Xaa Ile Gly Gly Tyr Pro Phe Trp Gly Gly
 130 135 140
 Leu Ser Phe Ile Ile Ser Gly Ser Leu Ser Val Ser Ala Ser Lys Glu
 145 150 155 160
 Leu Ser Arg Cys Leu Val Lys Gly Ser Leu Gly Met Asn Ile Gly Arg
 165 170 175
 Ser Ile Leu Ala Phe Ile Gly Val Ile Leu Leu Leu Val Asp Met Cys
 180 185 190
 Ile Asn Gly Val Xaa Gly Gln Asp Tyr Trp Xaa Val Leu Ser Gly Lys
 195 200 205
 Gly Ile Ser Ala Thr Leu Met Ile Phe Ser Xaa Leu Glu Phe Phe Val
 210 215 220
 Ala Cys Ala Thr Ala His Phe Ala Asn Gln Ala Asn Thr Thr Thr Asn
 225 230 235 240
 Met Ser Val Leu Val Ile Pro Asn Met Tyr Glu Ser Asn Pro Xaa Thr
 245 250 255
 Pro Ala Ser Ser Ser Ala Pro Pro Arg Cys Asn Asn Tyr Ser Ala Asn
 260 265 270
 Ala Pro Lys Arg Lys Arg Gly Ile Ser Leu Ile Ser Trp Arg Lys Thr
 275 280 285
 Thr Cys Lys Asn Phe Leu Arg Arg Cys Leu Leu Leu Ser Thr Met Ile
 290 295 300
 Ser Ser Leu
 305

<210> 143
 <211> 246
 <212> PRT
 <213> Homo sapiens

205270" 88645001

<400> 143

Met Gly Arg Leu Asp Gly Lys Val Ile Ile Leu Thr Ala Ala Ala Gln
 1 5 10 15
 Gly Ile Gly Gln Ala Ala Ala Leu Ala Phe Ala Arg Glu Gly Ala Lys
 20 25 30
 Val Ile Ala Thr Asp Ile Asn Glu Ser Lys Leu Gln Glu Leu Glu Lys
 35 40 45
 Tyr Pro Gly Ile Gln Thr Arg Val Leu Asp Val Thr Lys Lys Lys Gln
 50 55 60
 Ile Asp Gln Phe Ala Asn Glu Val Glu Arg Leu Asp Val Leu Phe Asn
 65 70 75 80
 Val Ala Gly Phe Val His His Gly Thr Val Leu Asp Cys Glu Glu Lys
 85 90 95
 Asp Trp Asp Phe Ser Met Asn Leu Asn Val Arg Asn Val Met Tyr Leu
 100 105 110
 Met Ile Lys Ala Phe Leu Pro Lys Met Leu Ala Gln Lys Ser Gly Asn
 115 120 125
 Ile Ile Asn Met Ser Ser Val Ala Ser Ser Val Lys Gly Val Val Asn
 130 135 140
 Arg Cys Val Tyr Ser Thr Thr Lys Ala Ala Val Ile Gly Leu Thr Lys
 145 150 155 160
 Ser Val Ala Ala Asp Phe Ile Gln Gln Gly Ile Arg Cys Asn Cys Val
 165 170 175
 Cys Pro Gly Thr Val Asp Thr Pro Ser Leu Gln Glu Arg Ile Gln Ala
 180 185 190
 Arg Gly Asn Pro Glu Glu Ala Arg Asn Asp Phe Leu Lys Arg Gln Lys
 195 200 205
 Thr Gly Arg Phe Ala Thr Ala Glu Glu Ile Ala Met Leu Cys Val Tyr
 210 215 220
 Leu Ala Ser Asp Glu Ser Ala Tyr Val Thr Gly Asn Pro Val Ile Ile
 225 230 235 240
 Asp Gly Gly Trp Ser Leu
 245

<210> 144

<211> 234

<212> PRT

<213> Homo sapiens

<400> 144

Gly Thr Ile Gly Leu Tyr Trp Val Gly Ser Ile Ile Met Ser Val Val
 1 5 10 15

205498.012507

Val Phe Val Pro Gly Asn Ile Val Gly Lys Tyr Gly Thr Arg Ile Cys
 20 25 30
 Pro Ala Phe Phe Leu Ser Ile Pro Tyr Thr Cys Leu Pro Val Trp Ala
 35 40 45
 Gly Phe Arg Ile Tyr Asn Gln Pro Ser Glu Asn Tyr Asn Tyr Pro Ser
 50 55 60
 Lys Val Ile Gln Glu Ala Gln Ala Lys Asp Leu Leu Arg Arg Pro Phe
 65 70 75 80
 Asp Leu Met Leu Val Val Cys Leu Leu Leu Ala Thr Gly Phe Cys Leu
 85 90 95
 Phe Arg Gly Leu Ile Ala Leu Asp Cys Pro Ser Glu Leu Cys Arg Leu
 100 105 110
 Tyr Thr Gln Phe Gln Glu Pro Tyr Leu Lys Asp Pro Ala Ala Tyr Pro
 115 120 125
 Lys Ile Gln Met Leu Ala Tyr Met Phe Tyr Ser Val Pro Tyr Phe Val
 130 135 140
 Thr Ala Leu Tyr Gly Leu Val Val Pro Gly Cys Ser Trp Met Pro Asp
 145 150 155 160
 Ile Thr Leu Ile His Ala Gly Gly Leu Ala Gln Ala Gln Phe Ser His
 165 170 175
 Ile Gly Ala Ser Leu His Ala Arg Thr Ala Tyr Val Tyr Arg Val Pro
 180 185 190
 Glu Glu Ala Lys Ile Leu Phe Leu Ala Leu Asn Ile Ala Tyr Gly Val
 195 200 205
 Leu Pro Gln Leu Leu Ala Tyr Arg Cys Ile Tyr Lys Pro Glu Phe Phe
 210 215 220
 Ile Lys Thr Lys Ala Glu Glu Lys Val Glu
 225 230

<210> 145

<211> 238

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (184)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 145

Met Ser Asn His Asp Pro Arg Gly Cys Thr Arg Arg Arg Ala Gln Lys
 1 5 10 15

Pro Leu Ala Ile Gln Pro Arg Leu Phe His Ala Ser Ala Pro Asp Glu
 20 25 30

10054988-01250T
 20922T-886450T

Gly Thr Gln Gly Thr Leu Lys Gly Thr Gln Lys Gly Gly Cys Ile Leu
 35 40 45
 Val Gln Cys Gln Ser Glu Gly Gly Ala Ala Gly Ala Trp Thr Gly Pro
 50 55 60
 Pro Ser Pro Ala Arg Asp Arg Arg Val Arg Pro Pro Gly Thr Lys Ala
 65 70 75 80
 Gln Arg Leu Glu Arg Arg Arg His Val Pro Arg Leu His Gly Leu Gly
 85 90 95
 Val Gly Gly Cys Glu Val Arg Thr Gly Ile Val Ala Arg Ile Ser Gly
 100 105 110
 Ser Thr Pro Trp Ala Gly Gly Lys Pro Leu Gly Leu His Gly Ala Met
 115 120 125
 Gly Glu Ala Gly Ala Gly Asp Thr Gly Cys Cys Ala Lys Gly Pro Ser
 130 135 140
 Pro Ala Ala Pro Leu Pro Ala Glu Gly Arg Gly Gln Gly Ala Gly Pro
 145 150 155 160
 Gly Gly Leu Val Gly Arg Gly Glu Arg Arg Asp Gln Gln Thr Leu Leu
 165 170 175
 Gly Met Ala Glu Asp Thr Gly Xaa Ser Pro Ser Arg Pro Ser Ala Pro
 180 185 190
 Ala Pro Arg Ala Pro Val Pro Ala Arg Gln Pro Leu Pro Arg Ala Arg
 195 200 205
 Leu Gly Ala Ala Thr Ala Ile Ser Lys Ser Arg Ser Ser Arg Val Ala
 210 215 220
 Pro Ala Leu Ala Ala Ala Ile Ser Ala Ser Ser His Gln Arg
 225 230 235

<210> 146

<211> 207

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

1004988 012500

<223> Kaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Kaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Kaa equals any of the naturally occurring L-amino acids

<400> 146

Ser Thr Kaa Thr Kaa Thr Ile Gly Kaa Ala Gly Thr Pro Ala Gly Thr
1 5 10 15

Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Gly Glu Kaa Pro Val
20 25 30

Asp Phe Ser Lys Gln Tyr Ser Ala Ser Trp Met Cys Leu Ser Leu Leu
35 40 45

Ala Ala Leu Ala Cys Ser Ala Gly Asp Thr Trp Ala Ser Glu Val Gly
50 55 60

Pro Val Leu Ser Lys Ser Ser Pro Arg Leu Ile Thr Thr Trp Glu Lys
65 70 75 80

Val Pro Val Gly Thr Asn Gly Gly Val Thr Val Val Gly Leu Val Ser
85 90 95

Ser Leu Leu Gly Gly Thr Phe Val Gly Ile Ala Tyr Phe Leu Thr Gln
100 105 110

Leu Ile Phe Val Asn Asp Leu Asp Ile Ser Ala Pro Gln Trp Pro Ile
115 120 125

Ile Ala Phe Gly Gly Leu Ala Gly Leu Leu Gly Ser Ile Val Asp Ser
130 135 140

Tyr Leu Gly Ala Thr Met Gln Tyr Thr Gly Leu Asp Glu Ser Thr Gly
145 150 155 160

Met Val Val Asn Ser Pro Thr Asn Kaa Ala Arg His Ile Ala Gly Lys
165 170 175

Pro Ile Leu Asp Asn Asn Ala Val Asn Leu Phe Ser Ser Val Leu Ile
180 185 190

Ala Leu Leu Leu Pro Thr Ala Ala Trp Gly Phe Trp Pro Arg Gly
195 200 205

<210> 147

<211> 116

<212> PRT

<213> Homo sapiens

<400> 147

2054380-01500F

Met Ser Gln Arg Ala Gly Arg Arg Pro Gly Gly Trp Asn Pro Ser Leu
 1 5 10 15
 Ser Val Val Glu Val Cys Arg Gly Cys Arg Gly Thr Gly Pro Leu Pro
 20 25 30
 Trp Gly Ala Ser Leu Phe Pro Cys Ser Ala Ser Pro Leu Phe Pro Leu
 35 40 45
 Pro Leu Asn Arg Arg Gly Asp Val His Gly Thr Leu Gly Gly Arg Met
 50 55 60
 Leu Asn Arg Val Glu Cys Arg Asp Gly Val Ala Ala Ala Trp Leu Cys
 65 70 75 80
 Leu His Asp Ala Ala Ala Ile Arg Gly Ala Val Gly Arg Cys Pro Met
 85 90 95
 Trp Thr Gln Pro Thr His Trp Val Leu Leu Leu Cys Trp Ala Leu His
 100 105 110
 Phe Tyr Cys Arg
 115

<210> 148
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 148
 Met Thr Ala His Ser Phe Ala Leu Pro Val Ile Ile Phe Thr Thr Phe
 1 5 10 15
 Trp Gly Leu Val Gly Ile Ala Gly Pro Trp Phe Val Pro Lys Gly Pro
 20 25 30
 Asn Arg Gly Val Ile Ile Thr Met Leu Val Ala Thr Ala Val Cys Cys
 35 40 45
 Tyr Leu Phe Trp Leu Ile Ala Ile Leu Ala Gln Leu Asn Pro Leu Phe
 50 55 60
 Gly Pro Gln Leu Lys Asn Glu Thr Ile Trp Tyr Val Arg Phe Leu Trp
 65 70 75 80
 Glu

<210> 149
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 149
 Ala Gln Arg Ala Ala Arg Leu Gly Thr Arg Ala Pro Ala Ala Pro Ala
 1 5 10 15

10054988.012502

Ala Arg Pro Cys Ile Leu Pro Gly His Pro Ala Pro Gly His Asp Gly
 20 25 30

Ala Leu Ile Arg Pro Pro Gly His His Leu His His Val Leu Gly Pro
 35 40 45

Arg Arg His Arg Gly Pro Trp Phe Val Pro Lys Gly Pro Asn Arg Gly
 50 55 60

Val Ile Ile Thr Met Leu Val Ala Thr Ala Val Cys Cys Tyr Leu Phe
 65 70 75 80

Trp Leu Ile Ala Ile Leu Ala Gln Leu Asn Pro Leu Phe Gly Pro Gln
 85 90 95

Leu Lys Asn Glu Thr Ile Trp Tyr Val Arg Phe Leu Trp Glu
 100 105 110

<210> 130
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 150
 Met Thr Leu Glu Glu His Arg Asp Arg Pro Arg Leu Gly Met Cys Met
 1 5 10 15

Cys Val Cys Ala Cys Val Tyr Ala Cys Met Leu Met His Val Cys Val
 20 25 30

His Ala Cys Leu Cys Val Cys Val Cys Val Cys Val Glu Pro Trp Ser
 35 40 45

Ser Arg Gln Ser Lys Asp Thr Gly Gly Trp His Met Glu Glu Gln Val
 50 55 60

Thr Pro Pro Ser Leu Ala Gln Leu Lys Ser Gly Gln Val Arg Gly Glu
 65 70 75 80

Met Gly Glu Gly Arg Gly Glu Lys Gly Glu Glu Ala Leu Thr Gly Gly
 85 90 95

Ala Glu Ala Leu Ser Leu Leu Gly Arg Arg Ser Pro Ser Thr Pro Leu
 100 105 110

Phe Leu Asp Arg Glu Asp Lys Gln Ala Lys Asp Ala Arg Asn Leu Ser
 115 120 125

Ser Thr Val Ala Pro Asp Phe
 130 135

<210> 151
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 151

205498.01502

His Glu Lys Ile Leu Thr Pro Ile Trp Pro Ser Ser Thr Asp Leu Glu
1 5 10 15

Lys Pro His Glu Met Leu Phe Leu Asn Val Ile Leu Phe Ser Leu Thr
20 25 30

Val Phe Thr Leu Ile Ser Thr Ala His Thr Leu Asp Arg Ala Val Arg
35 40 45

Ser Asp Trp Leu Leu Leu Val Leu Ile Tyr Ala Cys Leu Glu Glu Leu
50 55 60

Ile Pro Glu Leu Ile Phe Asn Leu Tyr Cys Gln Gly Asn Ala Thr Leu
65 70 75 80

Phe Phe

<210> 152

<211> 71

<212> PRT

<213> Homo sapiens

<400> 152

Pro Ala Asn Lys Ala Gly Ala Ala Ile Glu Ala Gly Ile Gly Ile Ser
1 5 10 15

Leu Met Val Leu Ser Pro Trp Ala Cys Leu Phe Val Val Phe Phe Pro
20 25 30

Tyr Ile Gln Ser Ser Leu Arg Ser Asp Lys His Leu Gln Leu Ser Asn
35 40 45

Ile Leu Pro Thr Pro Ser His His Ile His Leu Pro Ala Ser Ile Cys
50 55 60

Ile Gln Leu Arg Ala Gly Asn
65 70

<210> 153

<211> 75

<212> PRT

<213> Homo sapiens

<400> 153

Ala Gly Ser Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr
1 5 10 15

Arg Pro Ile Ser Thr His Val Phe Glu Tyr Glu Cys Ile Cys Lys Ile
20 25 30

Pro Arg Phe Met Cys Glu Tyr Val Leu Leu Leu Tyr Ile Val Leu Leu
35 40 45

Cys Asn Arg Ser Tyr Ala Val Phe Thr Gln Cys Val Leu Arg Ser Ser
50 55 60

205270 8864500F

Pro Ile Asp Ser Ser Arg Asn Ala Val Leu Leu
65 70 75

<210> 154
<211> 483
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (194)
<223> Kaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (205)
<223> Kaa equals any of the naturally occurring L-amino acids

<400> 154
Met Pro Ser Gly Met Ser Ala Ala Val Pro Ile Ser Gly Leu Leu Asp
1 5 10 15
Leu Ser His Asn Ser Ile Ser Gln Glu Ser Ala Leu Tyr Leu Leu Glu
20 25 30
Thr Leu Pro Ser Cys Pro Arg Val Arg Glu Ala Ser Val Asn Leu Gly
35 40 45
Ser Glu Gln Ser Phe Arg Ile His Phe Ser Arg Glu Asp Gln Ala Gly
50 55 60
Lys Thr Leu Arg Leu Ser Glu Cys Ser Phe Arg Pro Glu His Val Ser
65 70 75 80
Arg Leu Ala Thr Gly Leu Ser Lys Ser Leu Gln Leu Thr Glu Leu Thr
85 90 95
Leu Thr Gln Cys Cys Leu Gly Gln Lys Gln Leu Ala Ile Leu Leu Ser
100 105 110
Leu Val Gly Arg Pro Ala Gly Leu Phe Ser Leu Arg Val Gln Glu Pro
115 120 125
Trp Ala Asp Arg Ala Arg Val Leu Ser Leu Leu Glu Val Cys Ala Gln
130 135 140
Ala Ser Gly Ser Val Thr Glu Ile Ser Ile Ser Glu Thr Gln Gln Gln
145 150 155 160
Leu Cys Val Gln Leu Glu Phe Pro Arg Gln Glu Glu Asn Pro Glu Ala
165 170 175
Val Ala Leu Arg Leu Ala His Cys Asp Leu Gly Ala His His Ser Leu
180 185 190
Leu Xaa Gly Gln Leu Met Glu Thr Cys Ala Arg Leu Xaa Gln Leu Ser
195 200 205

10054988 01500
2005070 0004500

Leu Ser Gln Val Asn Leu Cys Glu Asp Asp Asp Ala Ser Ser Leu Leu
 210 215 220
 Leu Gln Ser Leu Leu Leu Ser Leu Ser Glu Leu Lys Thr Phe Arg Leu
 225 230 235 240
 Thr Ser Ser Cys Val Ser Thr Glu Gly Leu Ala His Leu Ala Ser Gly
 245 250 255
 Leu Gly His Cys His His Leu Glu Glu Leu Asp Leu Ser Asn Asn Gln
 260 265 270
 Phe Asp Glu Glu Gly Thr Lys Ala Leu Met Arg Ala Leu Glu Gly Lys
 275 280 285
 Trp Met Leu Lys Arg Leu Asp Leu Ser His Leu Leu Leu Asn Ser Ser
 290 295 300
 Thr Leu Ala Leu Leu Thr His Arg Leu Ser Gln Met Thr Cys Leu Gln
 305 310 315 320
 Ser Leu Arg Leu Asn Arg Asn Ser Ile Gly Asp Val Gly Cys Cys His
 325 330 335
 Leu Ser Glu Ala Leu Arg Ala Ala Thr Ser Leu Glu Glu Leu Asp Leu
 340 345 350
 Ser His Asn Gln Ile Gly Asp Ala Gly Val Gln His Leu Ala Thr Ile
 355 360 365
 Leu Pro Gly Leu Pro Glu Leu Arg Lys Ile Asp Leu Ser Gly Asn Ser
 370 375 380
 Ile Ser Ser Ala Gly Gly Val Gln Leu Ala Glu Ser Leu Val Leu Cys
 385 390 395 400
 Arg Arg Leu Glu Glu Leu Met Leu Gly Cys Asn Ala Leu Gly Asp Pro
 405 410 415
 Thr Ala Leu Gly Leu Ala Gln Glu Leu Pro Gln His Leu Arg Val Leu
 420 425 430
 His Leu Pro Phe Ser His Leu Gly Pro Gly Gly Ala Leu Ser Leu Ala
 435 440 445
 Arg Pro Trp Met Asp Pro Pro Ile Trp Lys Arg Ser Ala Trp Arg Lys
 450 455 460
 Thr Thr Trp Leu Glu Gly Ser Cys Val Ser Val Trp Ser Ser Arg Cys
 465 470 475 480
 Ser Asp Arg

<210> 155
 <211> 221
 <212> PRT
 <213> Homo sapiens

2054988.012502

<400> 133

His Gln Leu Ser Arg Gly Ser Ala Val Gly Arg Val Ser Arg Ser Leu
 1 5 10 15

Gln Ala Pro Gly Gly Val Asp Ala Trp Leu Gln Cys Pro Gly Gly Ser
 20 25 30

His Ser Pro Gly Ala Gly Ser Gly Ala Ala Pro Ala Pro Glu Gly Pro
 35 40 45

Thr Pro Thr Ile Gln Pro Ser Gly Pro Arg Trp Gly Pro Glu Pro Gly
 50 55 60

Gln Ala Leu Asp Gly Ser Pro His Leu Glu Glu Ile Ser Leu Ala Glu
 65 70 75 80

Asn Asn Leu Ala Gly Gly Val Leu Arg Phe Cys Met Glu Leu Pro Leu
 85 90 95

Leu Arg Gln Ile Asp Leu Val Ser Cys Lys Ile Asp Asn Gln Thr Ala
 100 105 110

Lys Leu Leu Thr Ser Ser Phe Thr Ser Cys Pro Ala Leu Glu Val Ile
 115 120 125

Leu Leu Ser Trp Asn Leu Leu Gly Asp Glu Ala Ala Ala Glu Leu Ala
 130 135 140

Gln Val Leu Pro Gln Met Gly Arg Leu Lys Arg Val Asp Leu Glu Lys
 145 150 155 160

Asn Gln Ile Thr Ala Leu Gly Ala Trp Leu Leu Ala Glu Gly Leu Ala
 165 170 175

Gln Gly Ser Ser Ile Gln Val Ile Arg Leu Trp Asn Asn Pro Ile Pro
 180 185 190

Cys Asp Met Ala Gln His Leu Lys Ser Gln Glu Pro Arg Leu Asp Phe
 195 200 205

Ala Phe Phe Asp Asn Gln Pro Gln Ala Pro Trp Gly Thr
 210 215 220

<210> 136

<211> 89

<212> PRT

<213> Homo sapiens

<400> 136

Glu Lys Leu Phe Cys Phe Glu Met Leu Leu Ile Cys Lys Phe Ser Pro
 1 5 10 15

Asn Ser Val Pro Pro Glu Thr Cys Ala Ile Leu Asn Gln Gly Leu Met
 20 25 30

Asp Leu Gly Leu Cys Arg Met Cys Leu Gly Asn Asn Met Phe Ala Gly
 35 40 45

1054938-012502

Ser Met Leu Gly Lys Ser His Arg His Ser Pro Phe Ser Ile Asn Gln
50 55 60

Arg His Asn Ala Leu Arg Lys Ala Ala Gly Thr Pro Ala Gln Lys Ser
65 70 75 80

Leu Gly Ile Val Gln Val Ser Pro Asn
85

<210> 157

<211> 58

<212> PRT

<213> Homo sapiens

<400> 157

Gly Cys Ala Gly Cys Ala Leu Val Thr Ile Cys Leu Gln Ala Val Cys
1 5 10 15

Leu Val Lys Ala Ile Ala Ile Leu His Ser Arg Leu Thr Arg Asp Thr
20 25 30

Met His Cys Gly Arg Pro Gln Gly Pro Leu Pro Arg Lys Ala Trp Val
35 40 45

Leu Ser Arg Phe Pro Pro Thr Glu Thr Ala
50 55

<210> 158

<211> 48

<212> PRT

<213> Homo sapiens

<400> 158

Pro Glu Thr Gln Cys Thr Ala Glu Gly Arg Arg Asp Pro Cys Pro Glu
1 5 10 15

Lys Pro Gly Tyr Cys Pro Gly Phe Pro Gln Leu Arg Gln Pro Glu Ile
20 25 30

Trp Pro Arg Gly Lys Gly Lys Thr Leu His Pro Pro Ala Arg His Met
35 40 45

<210> 159

<211> 8

<212> PRT

<213> Homo sapiens

<400> 159

Ser Glu Ile Gly Glu Asn Arg Pro
1 5

10054988-015007

<210> 160
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 160
 His Asp Thr Asp Ser Phe Ala His
 1 5

<210> 161
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 161
 Ala Leu Arg Lys Ala Ala Gly
 1 5

<210> 162
 <211> 148
 <212> PRT
 <213> Homo sapiens

<400> 162
 Met Arg Gly Pro Val Cys Gly Phe Ser Leu Val Glu Met Leu Leu Ala
 1 5 10 15
 Leu Ala Leu Gly Leu Met Leu Ile Leu Gly Val Thr Gln Ile Ala Leu
 20 25 30
 Ser Ser Arg Thr Thr Tyr Ala Ser Gln Ser Ala Ala Ser Leu Leu Gln
 35 40 45
 Asp Asp Ala Arg Phe Ala Leu Gly Lys Leu Ile Gln Glu Ile Arg Gln
 50 55 60
 Ala Gly Met Phe Gly Cys Leu Ser Ala Ala Ser Ile Ser Asn Ala Pro
 65 70 75 80
 Ala Gly Phe Asp Arg Pro Ile Gly Trp Ser Thr Thr Gly Ser Ser Arg
 85 90 95
 Ser Leu Thr Leu Val Thr Ala Asp Val Gly Glu Gly Gly Ser Lys Pro
 100 105 110
 Asp Trp Thr Val Leu Ser Asp Cys Thr Gly Ser Ala His Ala Tyr Val
 115 120 125
 Gly Ser Pro Pro Ala Ala Asn Ala Arg Ala Asn Pro Leu Pro Thr Cys
 130 135 140
 Ala Lys Leu Thr
 145

<210> 163
 <211> 137

2054988-0250

<212> PRT
<213> Homo sapiens

<400> 163

Met	Gly	Tyr	Tyr	Leu	Ser	Arg	Ser	Arg	Gln	Ala	Gly	Met	Val	Leu	Leu		
1				5					10					15			
Ile	Ser	Leu	Val	Phe	Leu	Leu	Leu	Leu	Ala	Leu	Leu	Gly	Val	Ser	Ser		
		20						25					30				
Met	Gln	Gly	Ala	Ile	Ser	Gln	Glu	Lys	Ile	Thr	Gly	Ser	Leu	Arg	Gln		
		35					40					45					
Arg	Asn	Gln	Ser	Phe	Gln	Gln	Ala	Glu	Ser	Gly	Leu	Arg	Leu	Gly	Glu		
	50					55					60						
Ser	Leu	Val	Gln	Ala	Ser	Gly	Phe	Ala	Leu	Arg	Pro	Cys	His	Ser	Thr		
	65				70					75					80		
Ala	Ala	Cys	Ala	Pro	Pro	Ala	Glu	Ser	Val	Ser	Val	Val	Gly	Pro	Gly...		
				85					90					95			
Thr	Asn	Pro	Val	Ser	Thr	Val	Thr	Trp	Ile	Gly	Met	Lys	Asp	Gly	Val		
		100						105					110				
Tyr	Gly	Ile	Gln	Asn	Leu	Gly	Pro	Gly	Thr	Gly	Leu	Val	Asn	Ser	Arg		
	115						120					125					
Gln	Arg	Pro	Arg	Pro	Arg	Ser	Ile	Ala									
	130					135											

<210> 164
<211> 209
<212> PRT
<213> Homo sapiens

<400> 164

Glu	Asn	Glu	Ser	Thr	Lys	Glu	Pro	Ser	Leu	Leu	Gln	Tyr	Leu	Cys	Val		
1				5					10					15			
Gln	Ser	Pro	Ala	Gly	Leu	Asn	Gly	Phe	Asn	Val	Leu	Leu	Ser	Gly	Ser		
		20						25					30				
Gln	Thr	Pro	Pro	Thr	Val	Gly	Pro	Ser	Ser	Gly	Gln	Leu	Pro	Ser	Phe		
		35					40					45					
Ser	Val	Pro	Cys	Met	Val	Leu	Pro	Ser	Pro	Pro	Leu	Gly	Pro	Phe	Pro		
	50					55					60						
Val	Leu	Tyr	Ser	Pro	Ala	Met	Pro	Gly	Pro	Val	Ser	Ser	Thr	Leu	Gly		
	65				70					75				80			
Ala	Leu	Pro	Asn	Thr	Gly	Pro	Val	Asn	Phe	Ser	Leu	Pro	Gly	Leu	Gly		
			85					90					95				
Ser	Ile	Ala	Gln	Leu	Leu	Val	Gly	Pro	Thr	Ala	Val	Val	Asn	Pro	Lys		
			100					105					110				

205210"88645001

Ser Ser Thr Leu Pro Ser Ala Asp Pro Gln Leu Gln Ser Gln Pro Ser
 115 120 125

Leu Asn Leu Ser Pro Val Met Ser Arg Ser His Ser Val Val Gln Gln
 130 135 140

Pro Glu Ser Pro Val Tyr Val Gly His Pro Val Ser Val Val Lys Leu
 145 150 155 160

His Gln Ser Pro Val Pro Val Thr Pro Lys Ser Ile Gln Arg Thr His
 165 170 175

Arg Glu Thr Phe Phe Lys Thr Pro Gly Ser Leu Gly Asp Pro Val Leu
 180 185 190

Lys Arg Arg Glu Arg Asn Asn His Glu Thr Pro Ala Arg Pro Arg Gly
 195 200 205

Asp

<210> 165
 <211> 454
 <212> PRT
 <213> Homo sapiens

<400> 165
 Arg His Glu Arg His Glu Tyr Arg Arg Ala Leu Asp His Glu Glu Glu
 1 5 10 15

Ala Leu Ser Ser Gly Ser Val Gln Glu Ala Glu Ala Met Leu Asp Glu
 20 25 30

Pro Gln Glu Gln Ala Glu Gly Ser Leu Thr Val Tyr Val Ile Ser Glu
 35 40 45

His Ser Ser Leu Leu Pro Gln Asp Met Met Ser Tyr Ile Gly Pro Lys
 50 55 60

Arg Thr Ala Val Val Arg Gly Ile Met His Arg Glu Ala Phe Asn Ile
 65 70 75 80

Ile Gly Arg Arg Ile Val Gln Val Ala Gln Ala Met Ser Leu Thr Glu
 85 90 95

Asp Val Leu Ala Ala Ala Leu Ala Asp His Leu Pro Glu Asp Lys Trp
 100 105 110

Ser Ala Glu Lys Arg Arg Pro Leu Lys Ser Ser Leu Gly Tyr Glu Ile
 115 120 125

Thr Phe Ser Leu Leu Asn Pro Asp Pro Lys Ser His Asp Val Tyr Trp
 130 135 140

Asp Ile Glu Gly Ala Val Arg Arg Tyr Val Gln Pro Phe Leu Asn Ala
 145 150 155 160

Leu Gly Ala Ala Gly Asn Phe Ser Val Asp Ser Gln Ile Leu Tyr Tyr

205210"88645007

175

<210> 166
<211> 66

<212> PRT

<213> Homo sapiens

<400> 166

Lys Leu Leu Leu Thr Lys Val Glu Gln Lys Leu Glu Leu Ala Arg Leu
 1 5 10 15

Gln Val Asp Thr Ser Gly Ser Lys Glu Phe Gly Thr Ser Gly Ile Pro
 20 25 30

Ala Lys Cys Arg Phe Pro Lys Ile Phe Val Asn Thr Asp Asp Thr Tyr
 35 40 45

Glu Glu Leu His Leu Ile Val Tyr Lys Val Thr Thr Val Phe Leu Pro
 50 55 60

Ala Leu
 65

<210> 167

<211> 79

<212> PRT

<213> Homo sapiens

<400> 167

Met Glu Pro Gln Leu Gly Pro Glu Ala Ala Ala Leu Arg Pro Gly Trp
 1 5 10 15

Leu Ala Leu Leu Leu Trp Val Ser Ala Leu Ser Cys Ser Phe Ser Leu
 20 25 30

Pro Ala Ser Ser Leu Ser Ser Leu Val Pro Gln Val Arg Thr Ser Tyr
 35 40 45

Asn Phe Gly Arg Thr Phe Leu Gly Leu Asp Lys Cys Asn Ala Cys Ile
 50 55 60

Gly Thr Ser Ile Cys Lys Lys Phe Phe Lys Glu Arg Asn Lys Ile
 65 70 75

<210> 168

<211> 209

<212> PRT

<213> Homo sapiens

<400> 168

Gln Leu Pro Leu Trp Pro Ser Pro Ala Ser Val Gln Pro Arg Val Asp
 1 5 10 15

Ser Gln Arg Ala Arg Gly Ser Pro Glu Pro Lys Met Glu Pro Gln Leu
 20 25 30

Gly Pro Glu Ala Ala Ala Leu Arg Pro Gly Trp Leu Ala Leu Leu Leu
 35 40 45

Trp Val Ser Ala Leu Ser Cys Ser Phe Ser Leu Pro Ala Ser Ser Leu
 50 55 60

205270" 8864500F

Ser Ser Leu Val Pro Gln Val Arg Thr Ser Tyr Asn Phe Gly Arg Thr
 65 70 75 80
 Phe Leu Gly Leu Asp Lys Cys Asn Ala Cys Ile Gly Thr Ser Ile Cys
 85 90 95
 Lys Lys Phe Phe Lys Glu Glu Ile Arg Ser Asp Asn Trp Leu Ala Ser
 100 105 110
 His Leu Gly Leu Pro Pro Asp Ser Leu Leu Ser Tyr Pro Ala Asn Tyr
 115 120 125
 Ser Asp Asp Ser Lys Ile Trp Arg Pro Val Glu Ile Phe Arg Leu Val
 130 135 140
 Ser Lys Tyr Gln Asn Glu Ile Ser Asp Arg Lys Ile Cys Ala Ser Ala
 145 150 155 160
 Ser Ala Pro Lys Thr Cys Ser Ile Glu Arg Val Leu Arg Lys Thr Glu
 165 170 175
 Arg Phe Gln Lys Trp Leu Gln Ala Lys Arg Leu Thr Pro Asp Leu Val
 180 185 190
 Gln Asp Cys His Gln Gly Gln Arg Glu Leu Lys Phe Leu Cys Met Leu
 195 200 205

Arg

<210> 169
 <211> 146
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (107)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (111)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (115)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

2054933-012302

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 169

Met	Glu	Pro	Gln	Leu	Gly	Pro	Glu	Ala	Ala	Ala	Leu	Arg	Pro	Gly	Trp
1				5					10					15	

Leu	Ala	Leu	Leu	Leu	Trp	Val	Ser	Ala	Leu	Ser	Cys	Ser	Phe	Ser	Leu
		20						25					30		

Pro	Ala	Ser	Ser	Leu	Ser	Ser	Leu	Val	Pro	Gln	Val	Arg	Thr	Ser	Tyr
		35					40					45			

Asn	Phe	Gly	Arg	Thr	Phe	Leu	Gly	Leu	Asp	Lys	Cys	Asn	Ala	Cys	Ile
	50					55					60				

Gly	Thr	Ser	Ile	Cys	Lys	Lys	Phe	Phe	Lys	Glu	Glu	Ile	Arg	Ser	Asp
65					70					75					80

Asn	Trp	Leu	Ala	Ser	His	Leu	Gly	Thr	Ala	Ser	Arg	Phe	Pro	Leu	Xaa
				85					90					95	

Ser	Tyr	Pro	Cys	Lys	Leu	Leu	Gln	Met	Ile	Xaa	Lys	Ile	Trp	Xaa	Pro
		100						105					110		

Cys	Gly	Xaa	Leu	Leu	Thr	Gly	Gln	Gln	Xaa	Ser	Asn	Glu	Ile	Ser	Lys
		115					120					125			

Gln	Glu	Ile	Xaa	Cys	Leu	Leu	His	Pro	Pro	Pro	Lys	Asn	Leu	His	Ile
	130					135					140				

Asp	Val
145	

<210> 170

<211> 97

<212> PRT

<213> Homo sapiens

<400> 170

Gly	Pro	Arg	Ala	Arg	Val	Gln	Gly	Phe	Ser	Gly	Ala	Asp	Ile	Val	Lys
1				5					10					15	

Phe	Met	Ala	Leu	Gly	Ser	Met	Tyr	Leu	Val	Leu	Thr	Leu	Ile	Val	Ala
		20						25					30		

Lys	Val	Leu	Arg	Gly	Ala	Glu	Pro	Cys	Cys	Gly	Pro	Leu	Lys	Asn	Arg
		35					40					45			

Val	Leu	Arg	Pro	Cys	Pro	Leu	Pro	Val	His	Cys	Pro	Leu	Pro	Ile	Pro
	50					55					60				

Ser	Pro	Ala	Glu	Gly	Ile	Pro	Trp	Val	Ala	Tyr	Leu	Pro	Ile	Arg	Trp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

2054988-012502

65

70

75

80

Phe Ile Ser Cys Cys Pro Gly His Cys Ile Gln Ile Pro Met Cys Thr
85 90 95

Ser

205270" 88645007